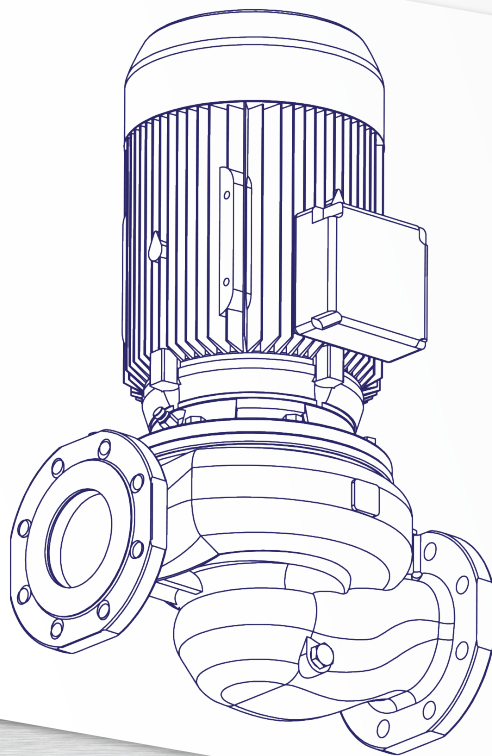


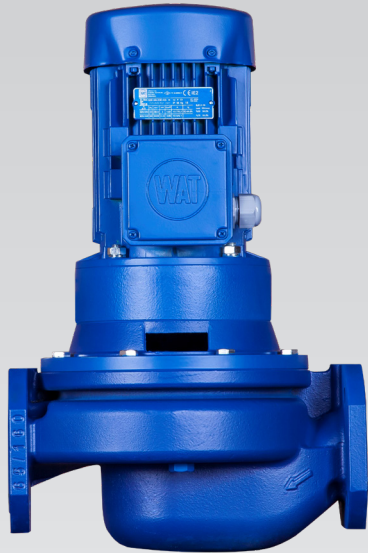


Dry Rotor Circulating Pumps - 60 Hz

✓ **EILR Series**

✓ **EILR - HF Series**

EILR - EILR HF SERIES DRY ROTOR CIRCULATING PUMPS



With the EILR - EILR HF series in-line dry rotor circulating pumps, keep comfort and energy efficiency at the highest level

- Direct connection to the installation with in-line connection (inlet and outlet on the same line)
- Used in cold & hot water circulation cycles of domestic and industrial heating & cooling, air-conditioning, and plumbing.

Fluid Property

- Handling of water and clean, chemically non-aggressive liquids.
- The maximum percentage of glycol that can be added to the circulating water is 50%. In case of using glycol-water mixed fluid, please contact our company at the product selection stage.

Specifications

Max. Flow Rate	: 340 m ³ /h
Max. Head	: 145 mwc
Maximum working pressure	: 16 bar
Connection flanges	: DN40 - DN125
Motor Speed	: 1750 rpm (60 Hz), 3550 rpm (60 Hz)
Power	: 0.55 kW - 75 kW
Max. Ambient Temperature	: 40 °C
Temperature of Pumped Liquid	: -10 +130 °C
Protection Class	: IP55
Insulation Class	: Class F

Design Properties

Pump Body	: GG25 Cast Iron
Shaft	: AISI 420 - Stainless Steel
Impeller	: GG25 Cast Iron
Adapter	: GG25 Cast Iron
Mechanical Seal	: Carbon / Silicium Carbide / EPDM
Support Body	: GG25 Cast
Elastomers	: EPDM



*EILR-HF series frequency control module installed in-line pump

- Three-phase asynchronous motor with external cooling
- Recommended to be used with extreme current protection panel for motor protection

- Pumps are mounted in-line connection and single-stage centrifugal pumps with mechanical seals. EILR series pumps are on motor shaft with pump shaft and adapter. Rotary parts can be serviced without removing the pump body from the installation.

EILR-HF Series Technical Characteristics*

- Variable speed control system which is located on the top of the electric motor, for managing pump operation according to system conditions. This provide energy savings, lower operating costs, greater comfort.

Accessories which is supplied according to demand

- Galvanised threaded pump flange
- Base foot to assemble the pump on the floor
- Different materials for mechanical seal and pump seals

Installation

- Can be installed horizontally or vertically providing the motor terminal box is upwards.
- Motor powers 5.5kW and higher, for installation in the horizontal position, the electric pump should be mounted on a pump foot.

EILR SERIES CIRCULATION PUMPS

SOUND LEVEL (1750 rpm)

PUMP TYPE	POWER [kW]	SPEED [rpm]	SOUND LEVEL
40-125	0,55	1750	47
40-125	0,75	1750	48
40-125	1,1	1750	49
40-160	0,75	1750	48
40-160	1,1	1750	49
40-160	1,5	1750	50
40-200	1,5	1750	50
40-200	2,2	1750	51
40-200	3	1750	52
40-250	2,2	1750	51
40-250	3	1750	52
40-250	4	1750	53
40-250	0,55	1750	47
50-125	0,55	1750	47
50-125	0,75	1750	48
50-125	1,1	1750	49
50-160	0,75	1750	48
50-160	1,1	1750	49
50-160	1,5	1750	50
50-160	2,2	1750	51
50-200	1,5	1750	50
50-200	2,2	1750	51
50-200	3	1750	52
50-200	4	1750	53
50-250	2,2	1750	51
50-250	3	1750	52
50-250	4	1750	53
50-250	5,5	1750	47
65-125	0,75	1750	48
65-125	1,1	1750	49
65-125	1,5	1750	50
65-160	1,1	1750	49
65-160	1,5	1750	50
65-160	2,2	1750	51
65-160	3	1750	52
65-200	1,5	1750	50
65-200	2,2	1750	51
65-200	3	1750	52
65-200	4	1750	53
65-250	3	1750	52
65-250	4	1750	53
65-250	5,5	1750	54
65-250	7,5	1750	55

PUMP TYPE	POWER [kW]	SPEED [rpm]	SOUND LEVEL
80-160	1,1	1750	49
80-160	2,2	1750	51
80-160	3	1750	52
80-160	4	1750	53
80-200	3	1750	52
80-200	4	1750	53
80-200	5,5	1750	54
80-200	7,5	1750	55
80-250	5,5	1750	54
80-250	7,5	1750	55
80-250	11	1750	56
80-250	15	1750	57
100-160	15	1750	64
100-160	2,2	1750	51
100-160	3	1750	52
100-160	4	1750	53
100-200	5,5	1750	54
100-200	7,5	1750	55
100-200	11	1750	56
100-200	15	1750	64
100-250	7,5	1750	55
100-250	11	1750	56
100-250	15	1750	57
100-250	18,5	1750	63
125-200	5,5	1750	54
125-200	7,5	1750	55
125-200	11	1750	56
125-200	15	1750	57
125-250	11	1750	56
125-250	15	1750	57
125-250	18,5	1750	63
125-250	30	1750	76

EILR SERIES CIRCULATION PUMPS SOUND LEVEL (3550 rpm)

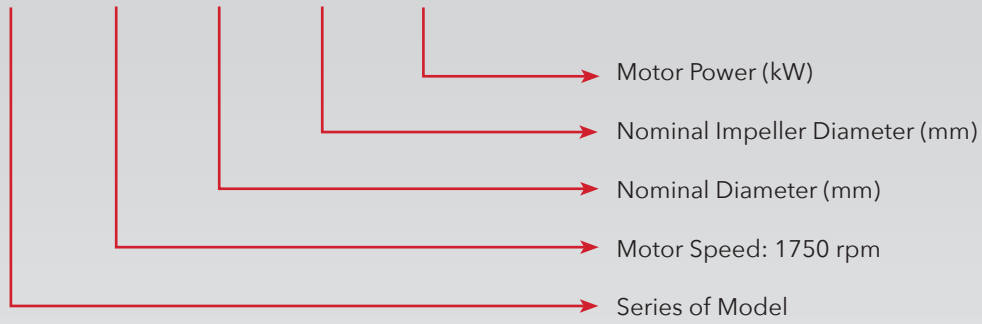


PUMP TYPE	POWER [kW]	SPEED [rpm]	SOUND LEVEL
40-125	3	3550	62
40-125	4	3550	63
40-125	5,5	3550	66
40-160	4	3550	63
40-160	5,5	3550	66
40-160	11	3550	68
40-200	5,5	3550	66
40-200	7,5	3550	67
40-200	11	3550	68
40-200	15	3550	71
40-250	11	3550	68
40-250	18,5	3550	72
40-250	30	3550	73
40-250	37	3550	74
50-125	3	3550	62
50-125	4	3550	63
50-125	5,5	3550	66
50-125	7,5	3550	67
50-160	4	3550	63
50-160	5,5	3550	66
50-160	7,5	3550	67
50-160	11	3550	68
50-200	7,5	3550	67
50-200	11	3550	68
50-200	15	3550	71
50-200	18,5	3550	72
50-250	22	3550	73
50-250	30	3550	73
50-250	37	3550	74
50-250	45	3550	75
65-125	4	3550	63
65-125	5,5	3550	66
65-125	7,5	3550	67
65-125	11	3550	68
65-160	5,5	3550	66
65-160	7,5	3550	67
65-160	11	3550	68
65-160	15	3550	71
65-160	18,5	3550	72
65-200	11	3550	68
65-200	15	3550	71
65-200	18,5	3550	72
65-200	22	3550	73

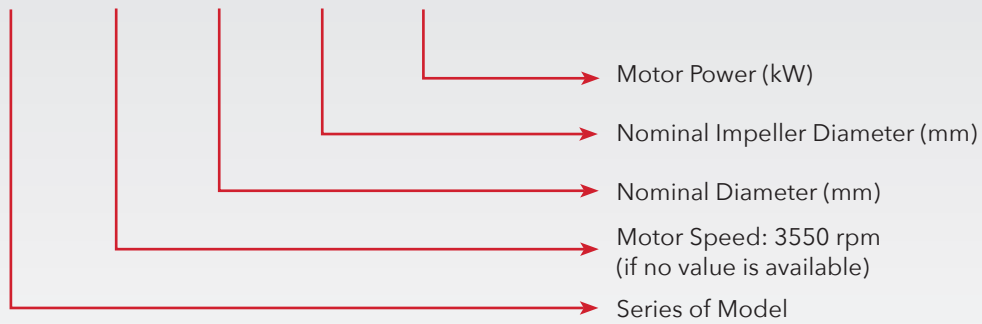
PUMP TYPE	POWER [kW]	SPEED [rpm]	SOUND LEVEL
65-250	30	3550	73
65-250	37	3550	74
65-250	5,5	3550	66
80-160	7,5	3550	67
80-160	11	3550	68
80-160	18,5	3550	72
80-160	22	3550	73
80-200	30	3550	73
80-200	37	3550	74
80-200	45	3550	75
80-200	55	3550	76
80-250	30	3550	73
80-250	37	3550	74
80-250	75	3550	77
80-250	90	3550	78
100-160	18,5	3550	72
100-160	22	3550	73
100-160	30	3550	73
100-200	22	3550	73
100-200	30	3550	73
100-200	37	3550	74
100-200	55	3550	76
100-200	75	3550	77
100-250	37	3550	74
100-250	55	3550	76
100-250	75	3550	77
100-250	90	3550	78
100-250	110	3550	79
125-200	37	3550	74
125-200	55	3550	76
125-200	75	3550	77

EILR - EILR HF SERIES PUMP IDENTIFICATION CODE AND LABEL

EILR 4 40 - 125 / 0,37



EILR ☐ 40 - 125 / 0,37



NOT : HF extention means that the circulator has a frequency controller.

ETNA®		CE		Alp Pompa Teknolojileri San. Tic. A.Ş. Dudullu OSB. 2. Cad. No: 14 34775 Ümraniye - İstanbul / Türkiye Tel : +90 216 561 47 74 (Pbx)	
①	TİP :	MVE ≥ 0,4	⑧		
⑤	Q :	m³/h	H :	mSS	②
⑥	DEVİR :	rpm	GÜÇ :	Kw	③
⑦	SERİ NO :		YIL :		④

① Model

② Nominal Pressure

③ Nominal Power

④ Year of Manufacture

⑤ Nominal Flow Rate

⑥ Motor's Rotation Speed

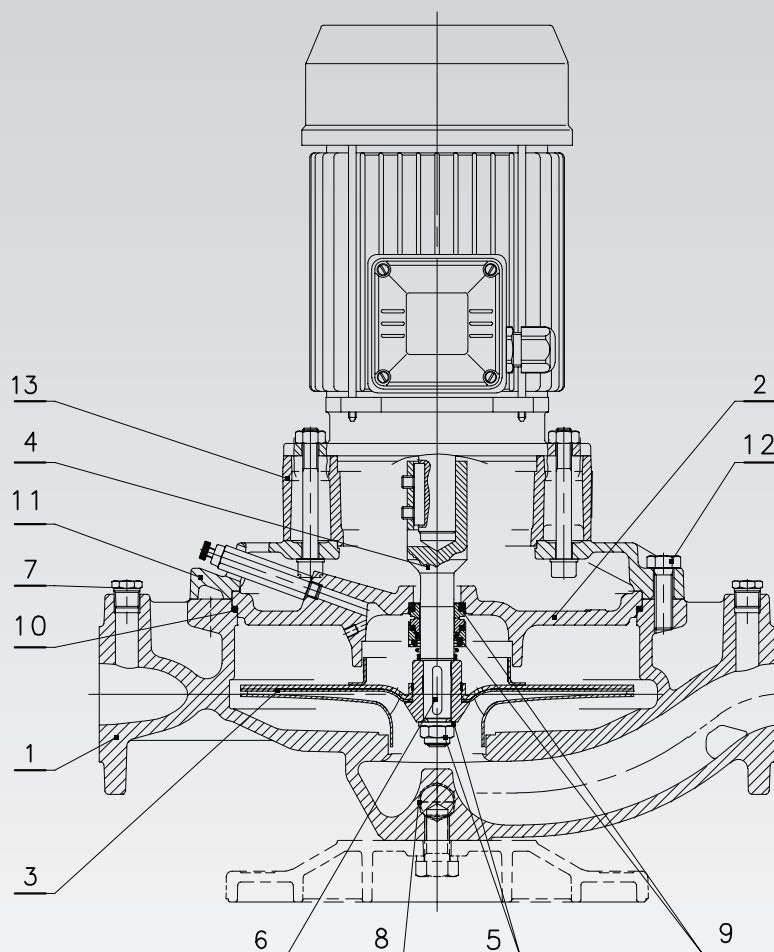
⑦ Serial Number

⑧ Minimum Efficiency Index Value

EILR-EILR4

LIST OF MODELS AND TABLE OF MATERIALS

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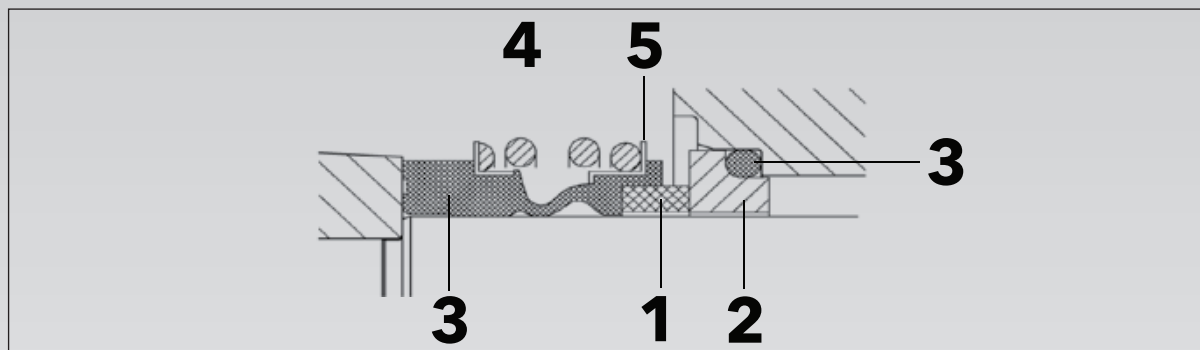
MODELS		
4 POLES (1750 rpm)		
40-125/05	50-250/30	80-200/75
40-125/07	50-250/40	80-250/55
40-125/11	50-250/55	80-250/75
40-160/07	65-125/07	80-250/110*
40-160/11	65-125/11	80-250/150
40-160/15	65-125/15	100-160/15
40-200/15	65-160/11	100-160/22
40-200/22	65-160/15	100-160/30
40-200/30	65-160/22	100-160/40
40-250/22	65-160/30	100-200/55
40-250/30	65-200/15	100-200/75
40-250/40*	65-200/22	100-200/110*
40-250/55	65-200/30	100-200/150
50-125/05	65-200/40	100-250/75
50-125/07	65-250/30	100-250/110*
50-125/11	65-250/40	100-250/150
50-160/07	65-250/55	100-250/185
50-160/11	65-250/75	125-200/55
50-160/15	80-160/11	125-200/75
50-160/22	80-160/22	125-200/110*
50-200/15	80-160/30	125-200/150
50-200/22	80-160/40	125-250/110*
50-200/30	80-200/30	125-250/150
50-200/40	80-200/40	125-250/185
50-250/22	80-200/55	125-250/300*

MODELS		
4 POLES (3550 rpm)		
40-125/30*	50-200/185	80-200/300*
40-125/40*	50-250/220*	80-200/370
40-125/55*	50-250/300*	80-200/450*
40-160/40*	50-250/370	80-200/550*
40-160/55*	50-250/450*	80-250/300*
40-160/110*	65-125/40*	80-250/370*
40-200/55*	65-125/55*	80-250/750*
40-200/75*	65-125/75	80-250/900*
40-200/110*	65-125/110*	100-160/185
40-200/150	65-160/55*	100-160/220*
40-250/110*	65-160/75	100-160/300*
40-250/185	65-160/110*	100-200/220*
40-250/300*	65-160/150	100-200/300*
40-250/370	65-160/185	100-200/370
50-125/30*	65-200/110*	100-200/550*
50-125/40*	65-200/150	100-200/750*
50-125/55*	65-200/185	100-250/370
50-125/75	65-200/220*	100-250/550*
50-160/40*	65-250/300*	100-250/750*
50-160/55*	65-250/370	100-250/900*
50-160/75*	65-250/550*	100-250/1100*
50-160/110*	80-160/75*	125-200/370
50-200/75	80-160/110*	125-200/550*
50-200/110*	80-160/185	125-200/750*
50-200/150	80-160/220*	

REF. No.	PART	MATERIAL	REF. REFERENCE STANDARDS	
			EUROPE	USA
1	Pump Body	Cast Iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
2	Seal Body	Cast Iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
3	Mechanical Seal Body	Cast Iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
4	Shaft	Stainless Steel	EN 10088-1-X2CrN Mo17-12-2 (1.4404)	AISI420
5	Impeller Nuts and Air Release Valve	Stainless Steel	EN 10088-1-X2CrN Mo17-12-2 (1.4404)	AISI 316L
6	Key	Stainless Steel	EN 10088-1-X2CrN Mo17-12-2 (1.4404)	AISI 316L
7	Plug and Air Discharge Valve	Nickel Plated Brass	EN 12164-CuZn39Pb3 (CW614N)	-
8	Fill / Drain Plugs	Nickel Plated Brass	EN 12164-CuZn39Pb3 (CW614N)	-
9	Mechanical Seal	Resin Impregnated Carbon/ Silicium Carbide/ EPDM/ AISI 304 (Standard Version)		
10	O-ring	EPDM (Standard Version)		
11	Pump Flange	Cast Iron	EN 1561-GJL-250 (JL1040)	ASTM Class 35
12	Pump Body Fastening Bolts and Washers	Galvanized Steel		

EILR SERIES MECHANICAL SEAL DETAIL

Mechanical seal connection dimensions in accordance with EN 12756 and ISO 3069



List of Materials

Positions 1-2	Positions 3	Positions 4 - 5
B : Resin impregnated carbon	E : EPDM	G : AISI 316
A : Antimony impregnated carbon	V : FKM (FPM)	
Q1 : Silicium Carbide		
U3 : Tungsten Carbide		

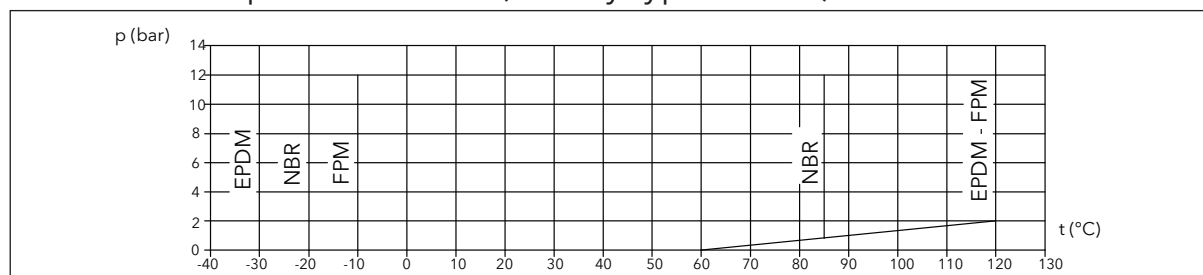
EIL Seal Type

Tip	Position					Temperature (°C)
	1	2	3	4	5	
	Rotating Part	Stationary Part	Elastics	Springs	Other Parts	
Standard Mechanical Seal						
Q1 Q1 E G G	B	Q1	E	G	G	-30/+120
Other Mechanical Seal Types						
VB V G G	V	B	V	G	G	-10/+120
Q1 B V G G	Q1	B	V	G	G	-10/+120
Q1 Q1 V G G	Q1	Q1	V	G	G	-10/+120
VB E G G	V	B	E	G	G	-30/+120
Q1 B E G G	Q1	B	E	G	G	-30/+120
B Q1 E G G	Q1	Q1	E	G	G	-30/+120

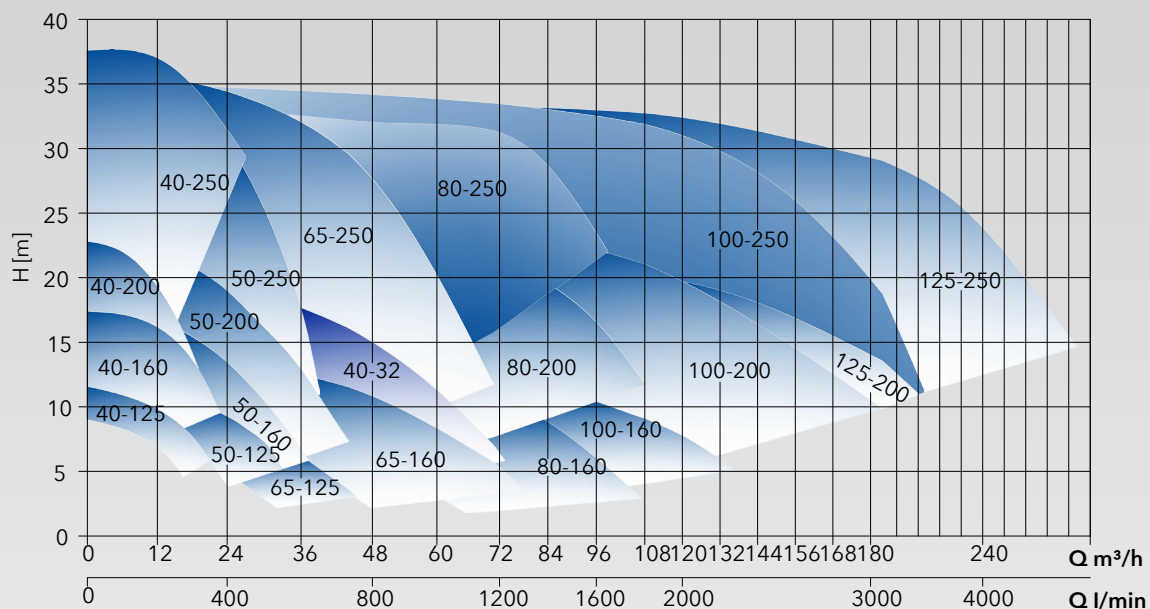
EIL R Mechanical Seal Type

Tip	Position					Temperature (°C)
	1	2	3	4	5	
	Rotating Part	Stationary Part	Elastics	Springs	Other Parts	
Standard Mechanical Seal						
Q1 B E G G	Q1	B	E	G	G	-30/+120
Other Mechanical Seal Types						
Q1 B V G G	Q1	B	V	G	G	-10/+120
Q1 Q1 V G G	Q1	Q1	V	G	G	-10/+120

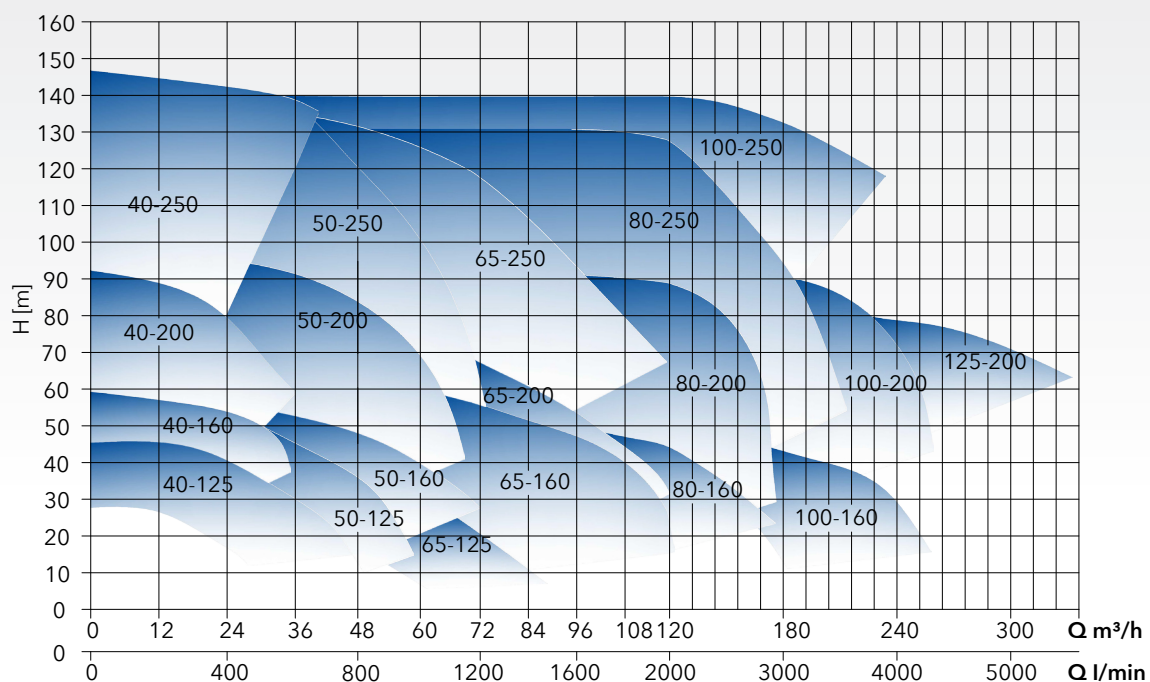
Pressure / Temperature Limits (for any type of seal)



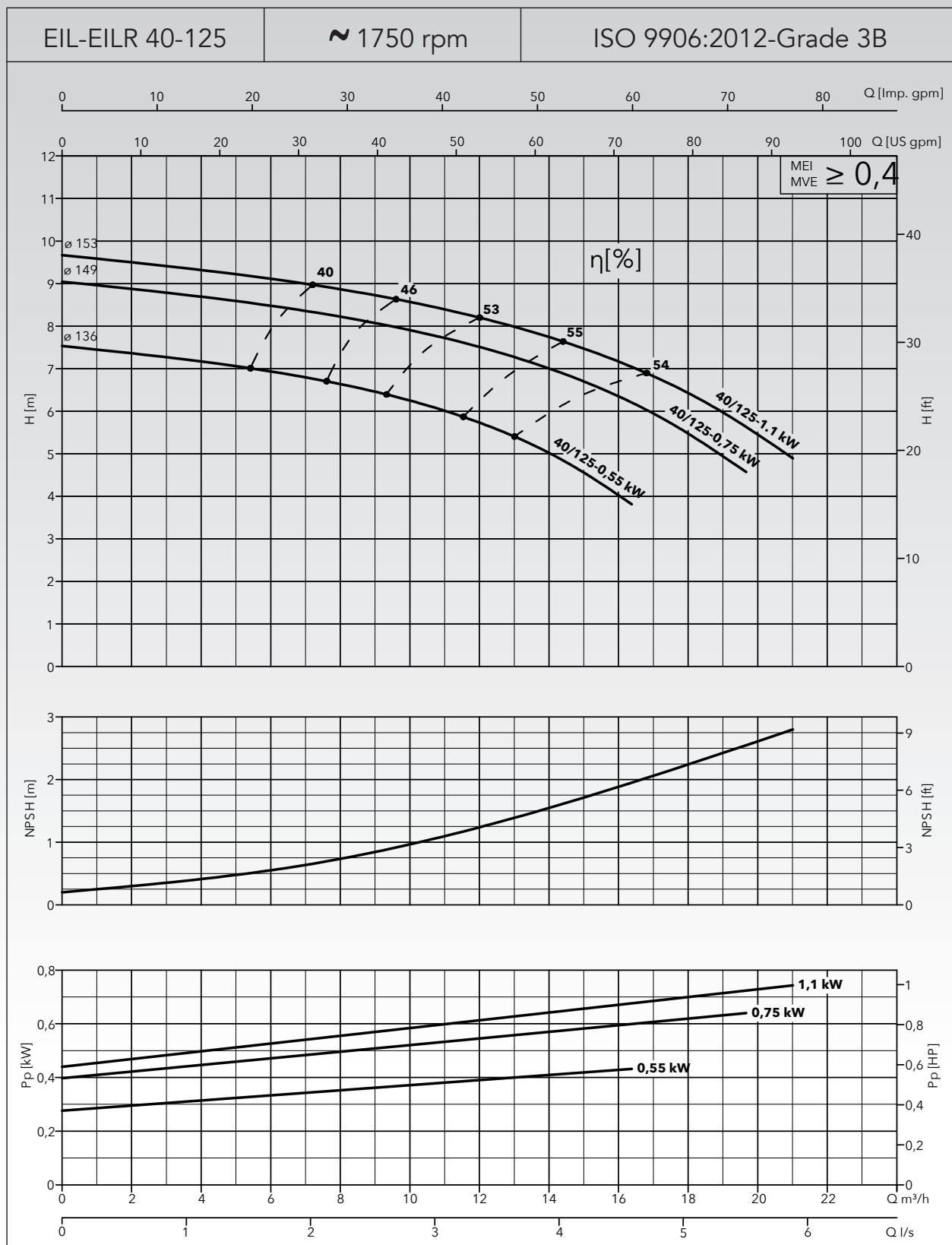
PERFORMANCE CURVES 60Hz, 4 POLES



PERFORMANCE CURVES 60Hz, 2 POLES

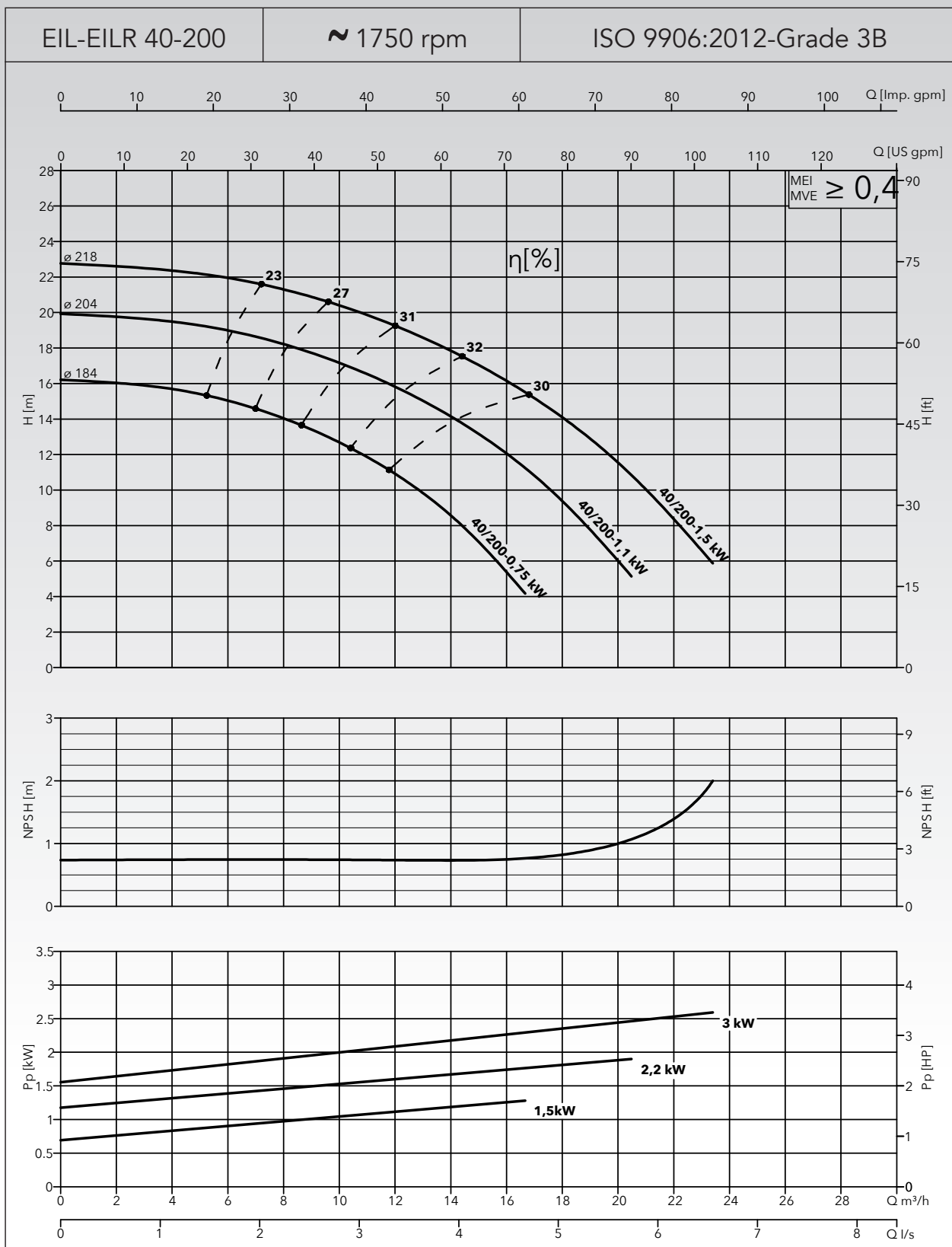


EILR4 SERIES HYDRAULIC PERFORMANCE CURVES

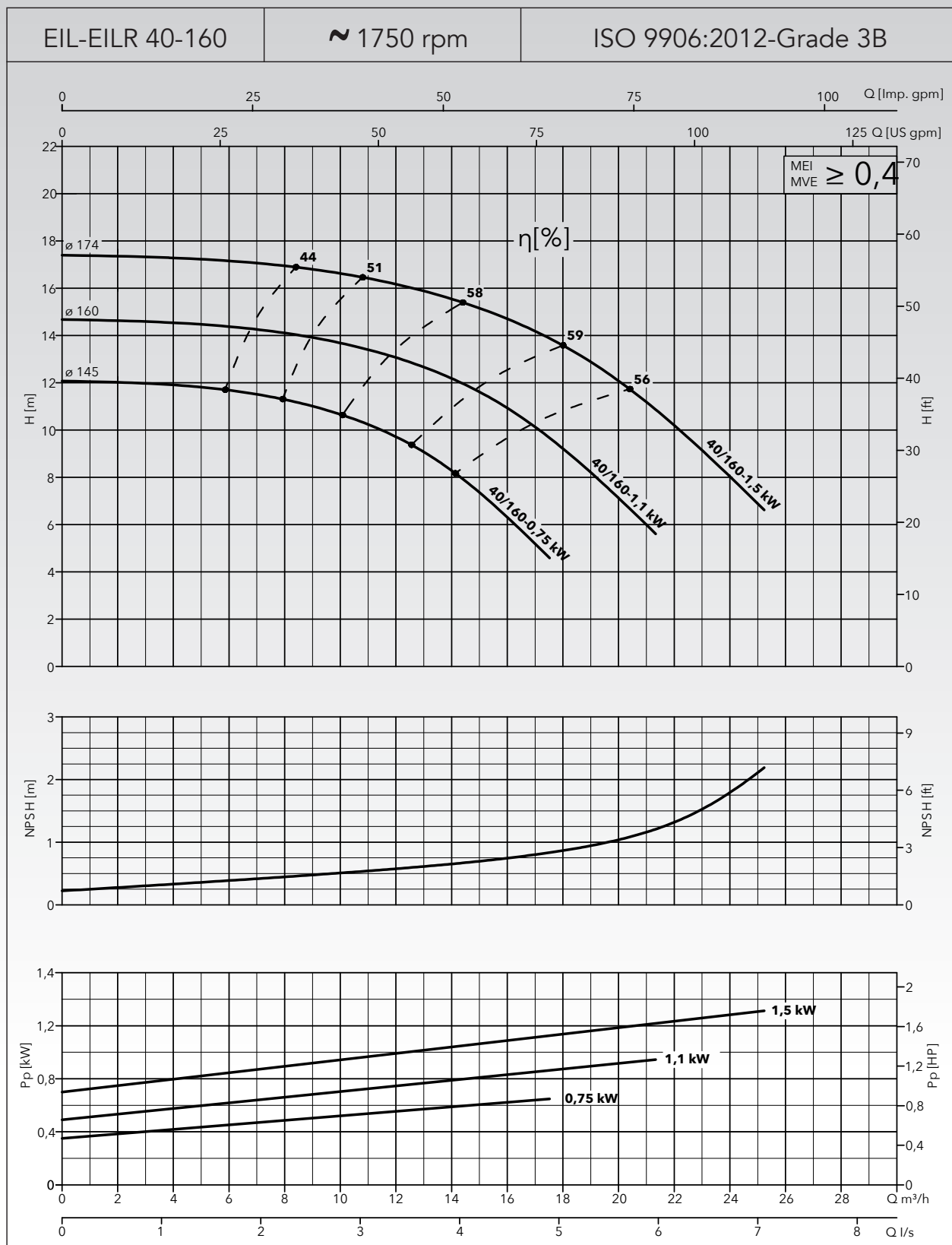


EILR4 SERIES HYDRAULIC PERFORMANCE CURVES

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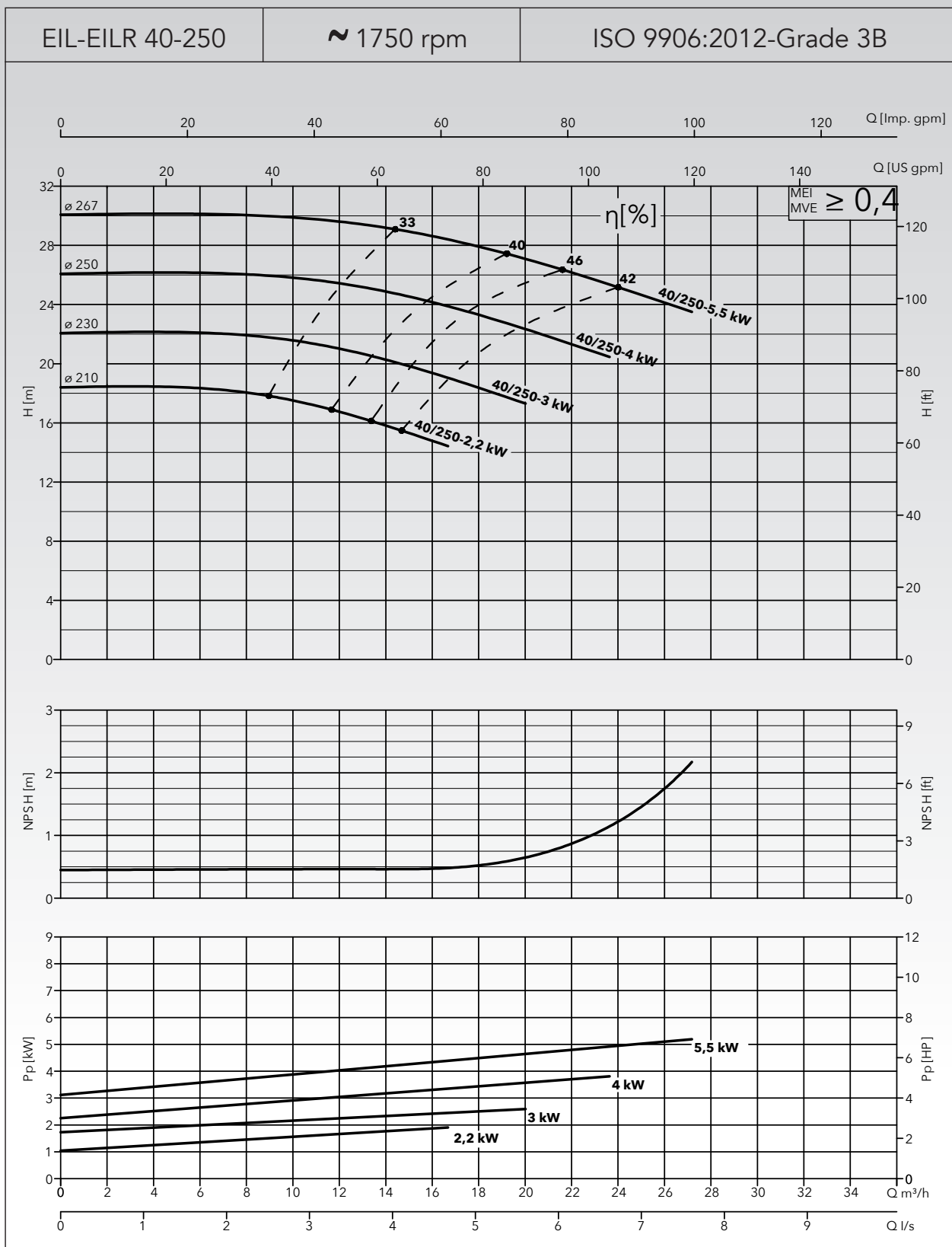


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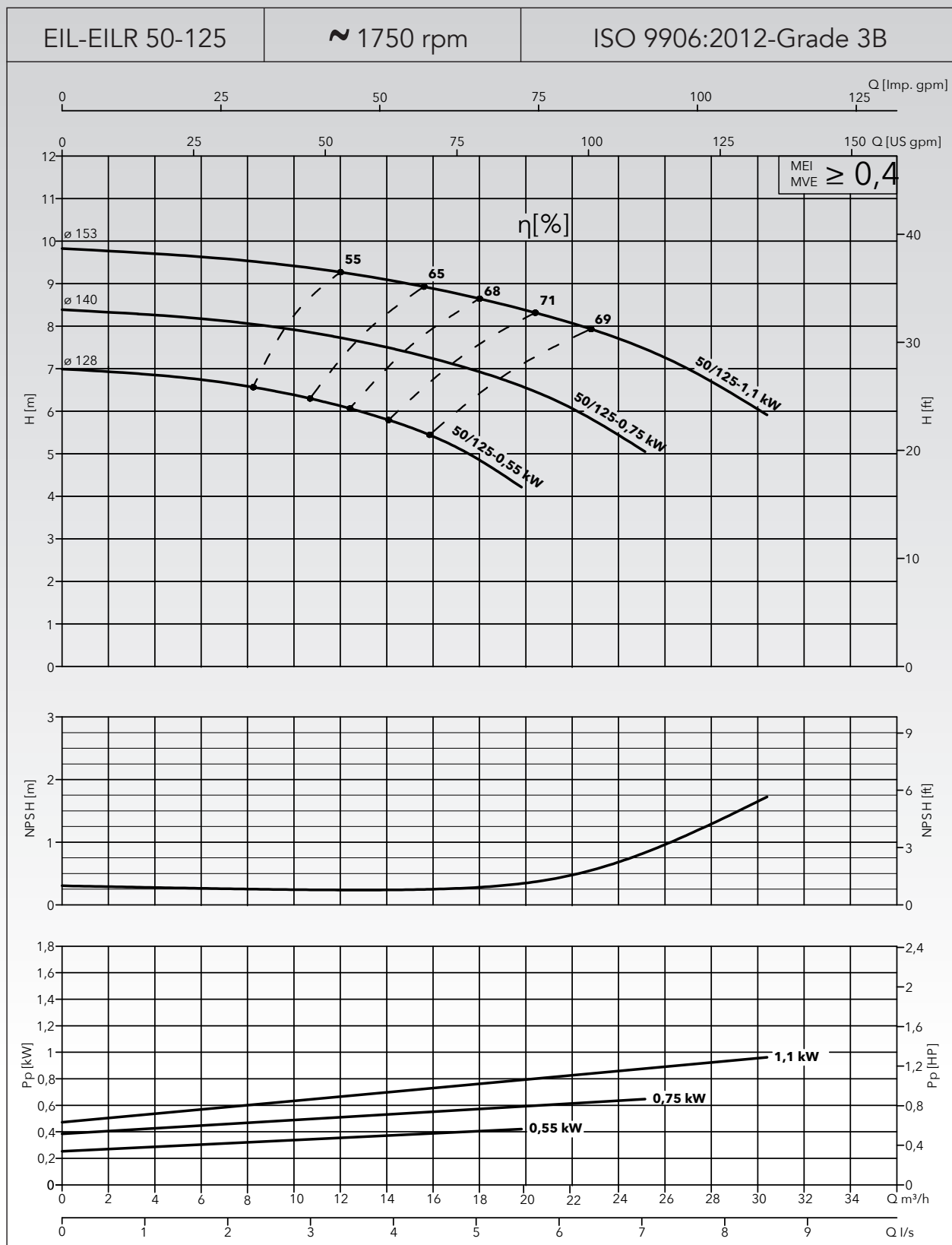


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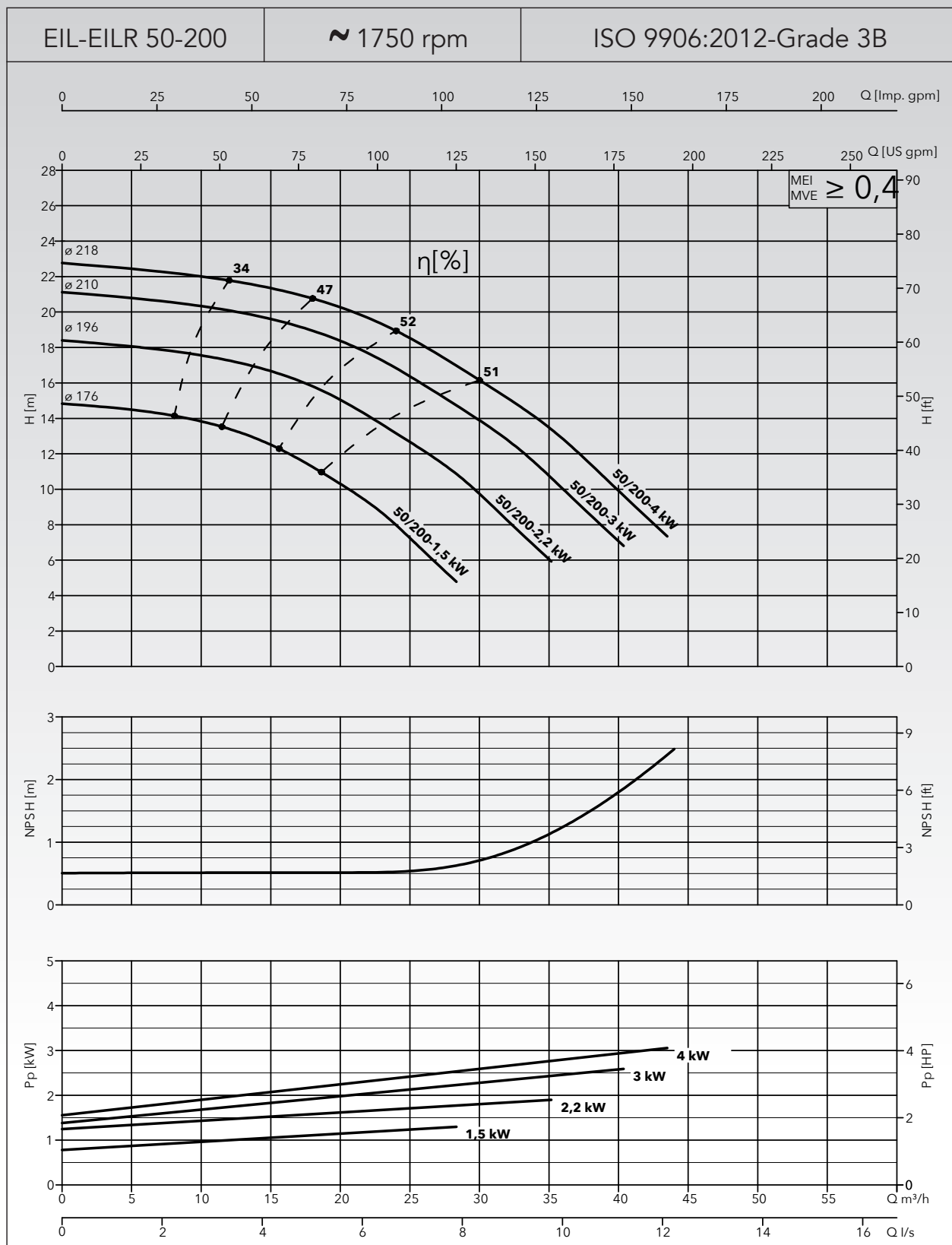


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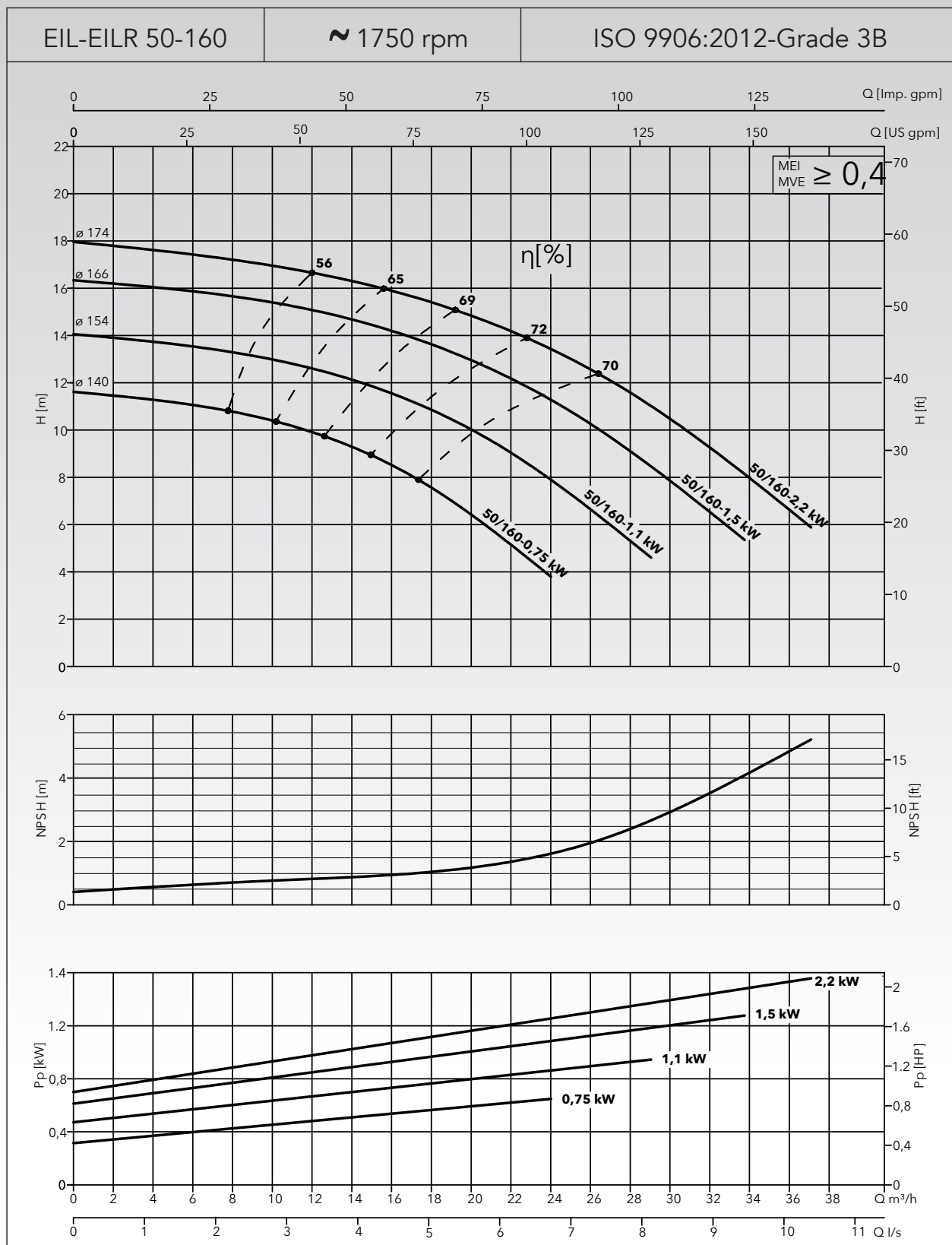


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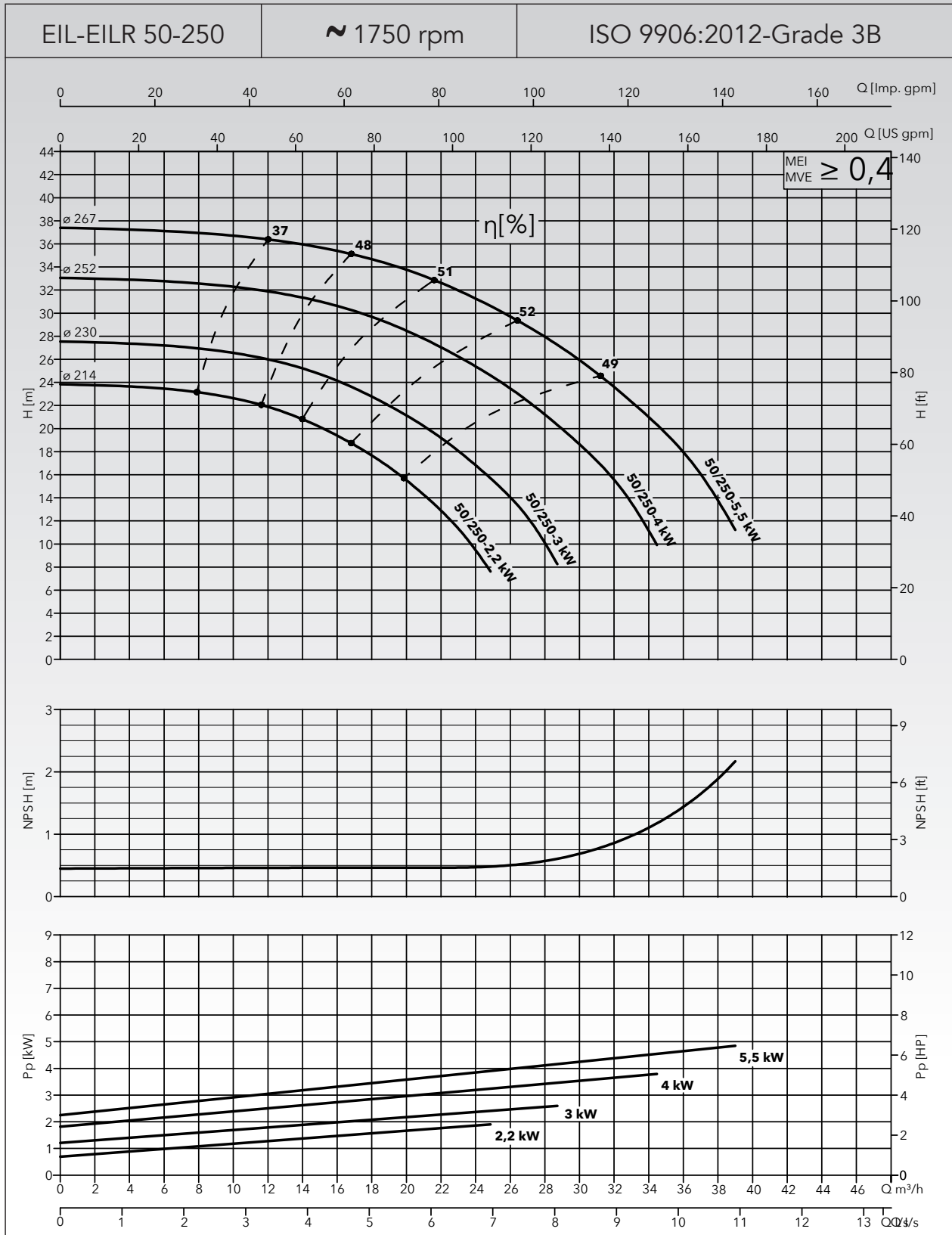


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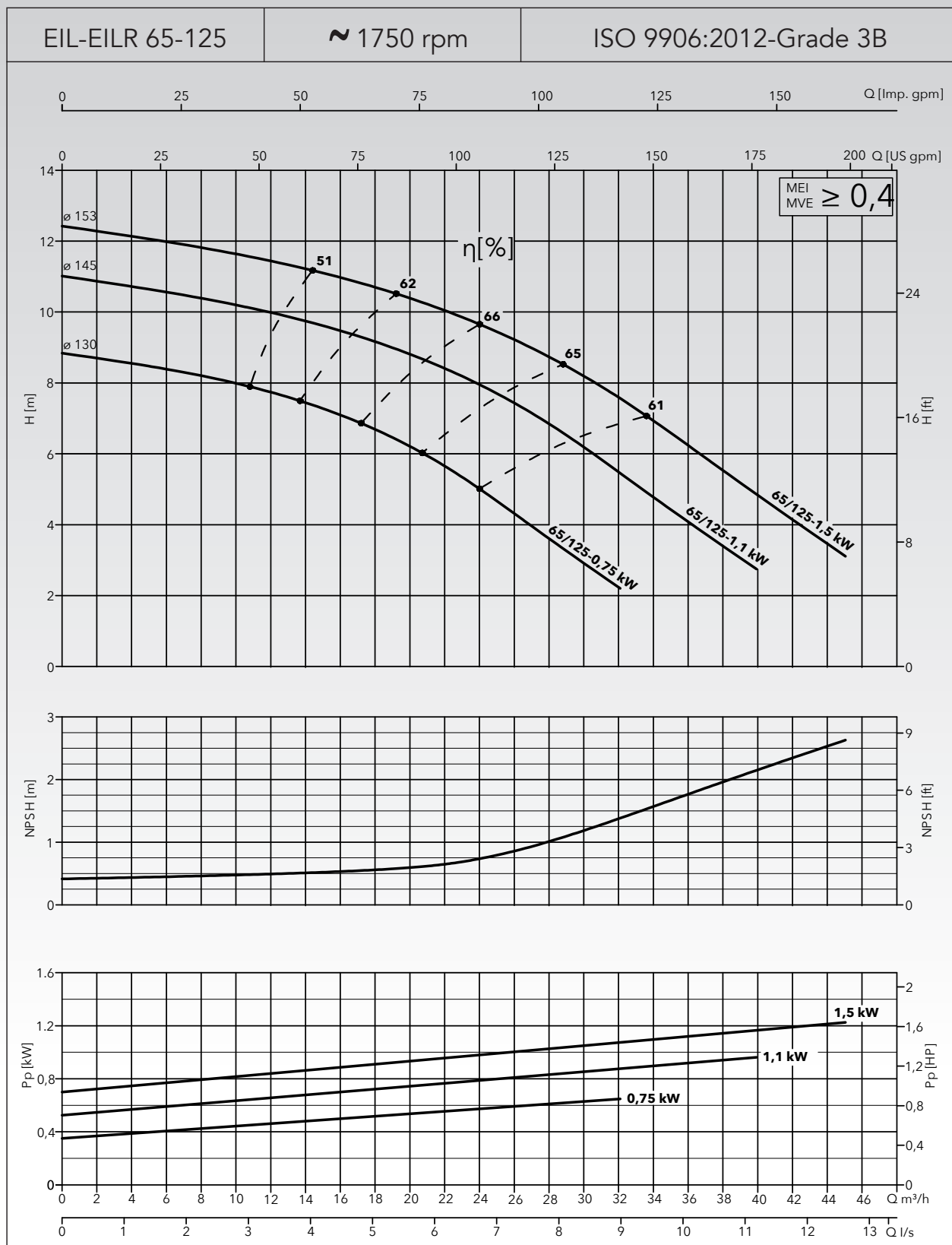


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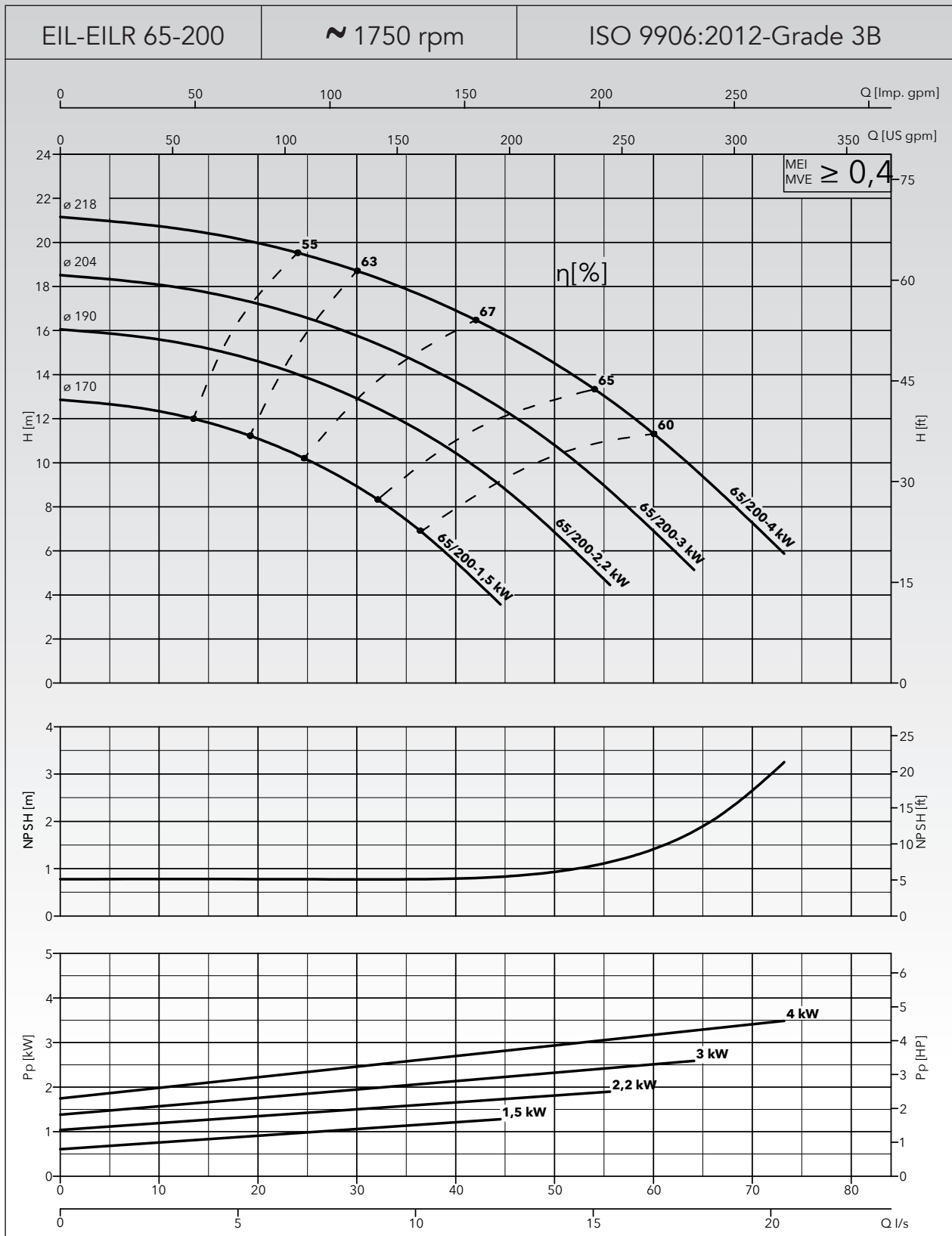


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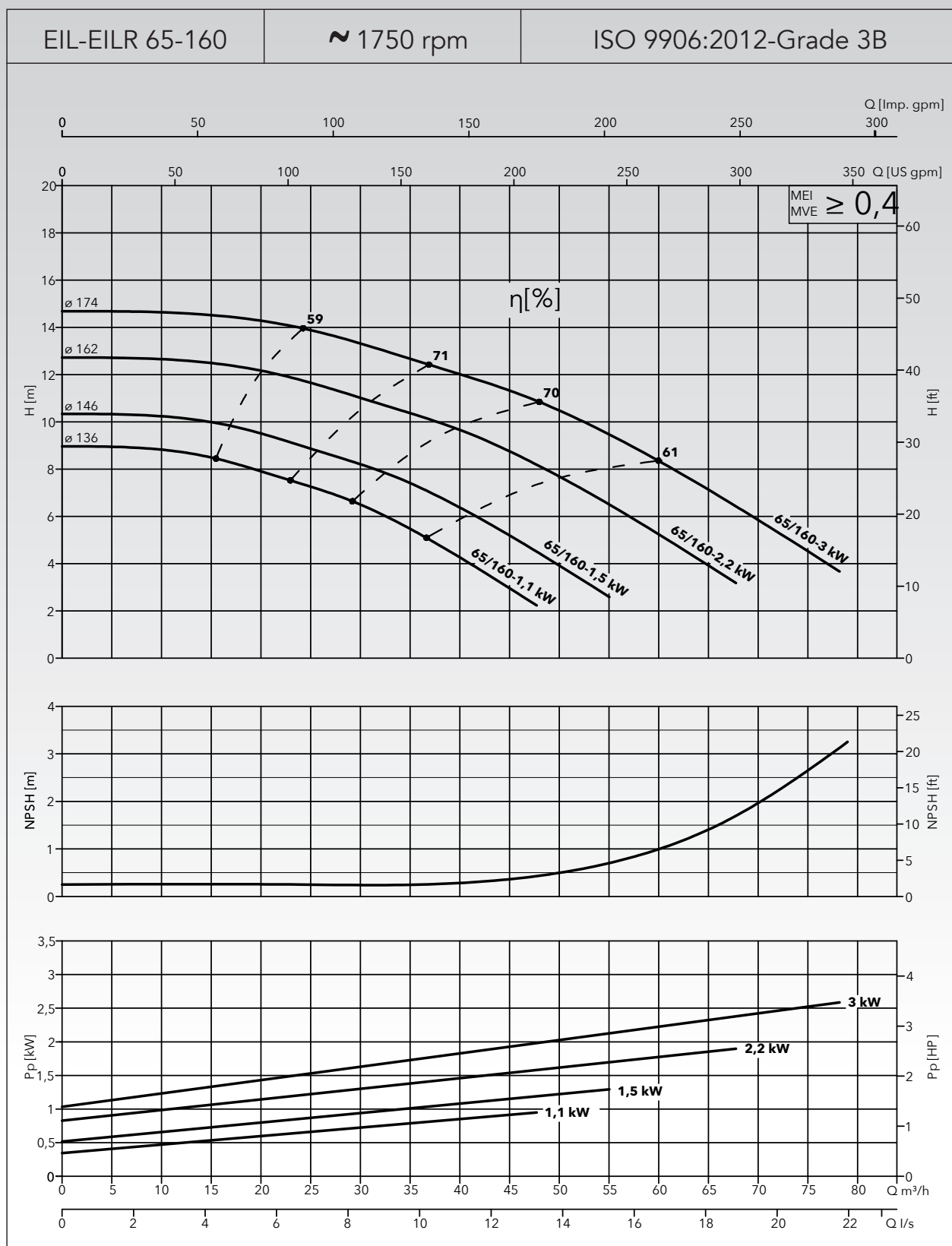


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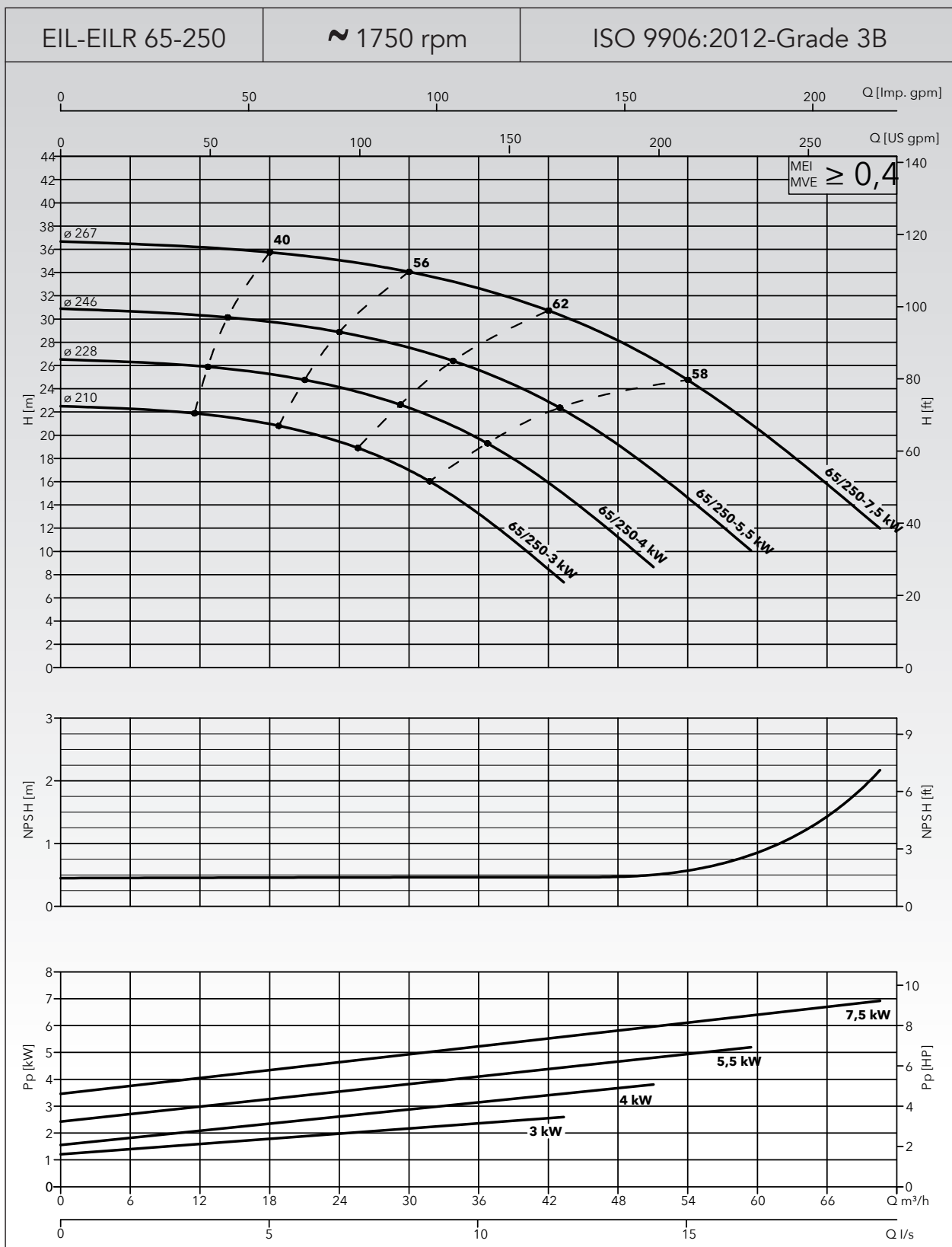


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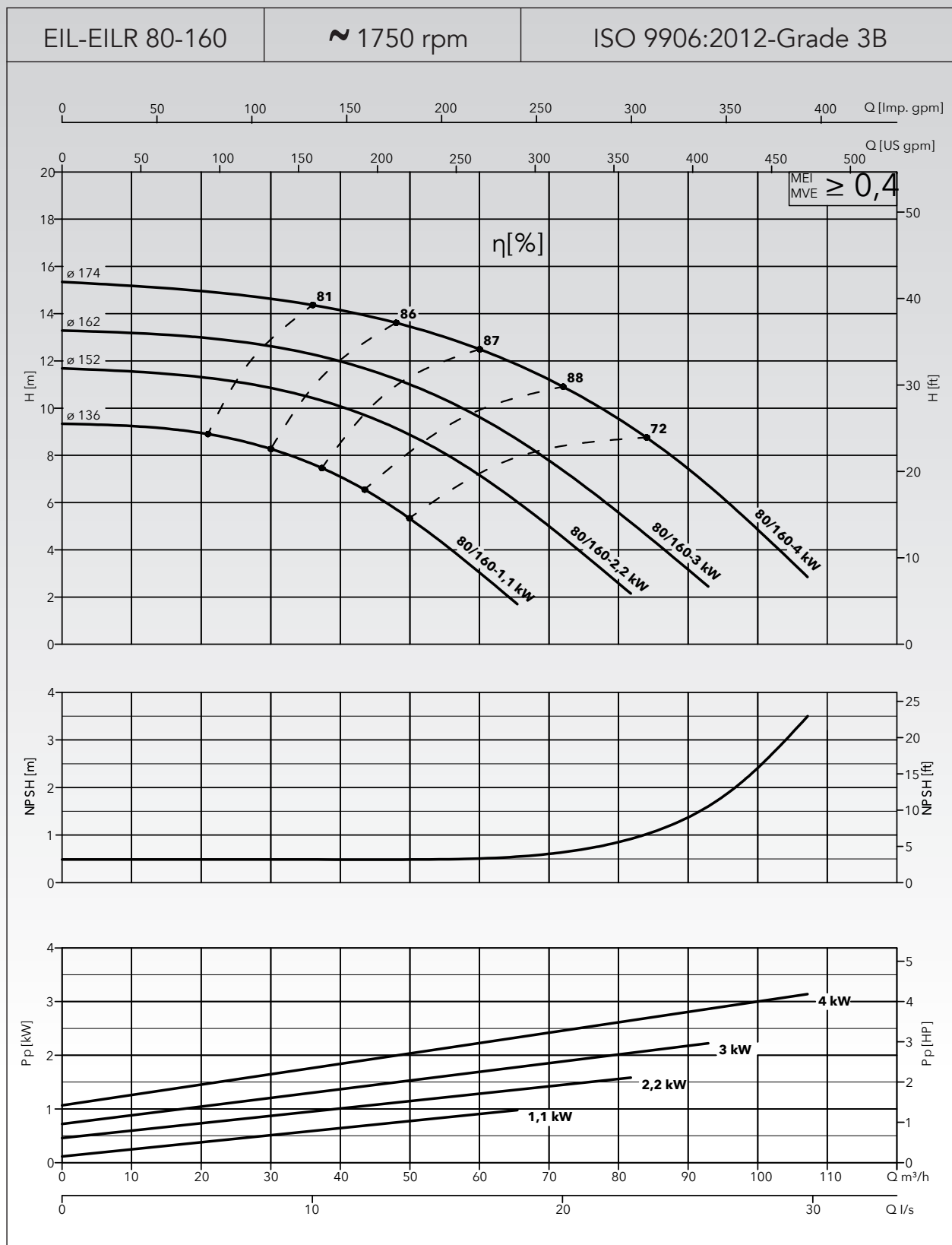


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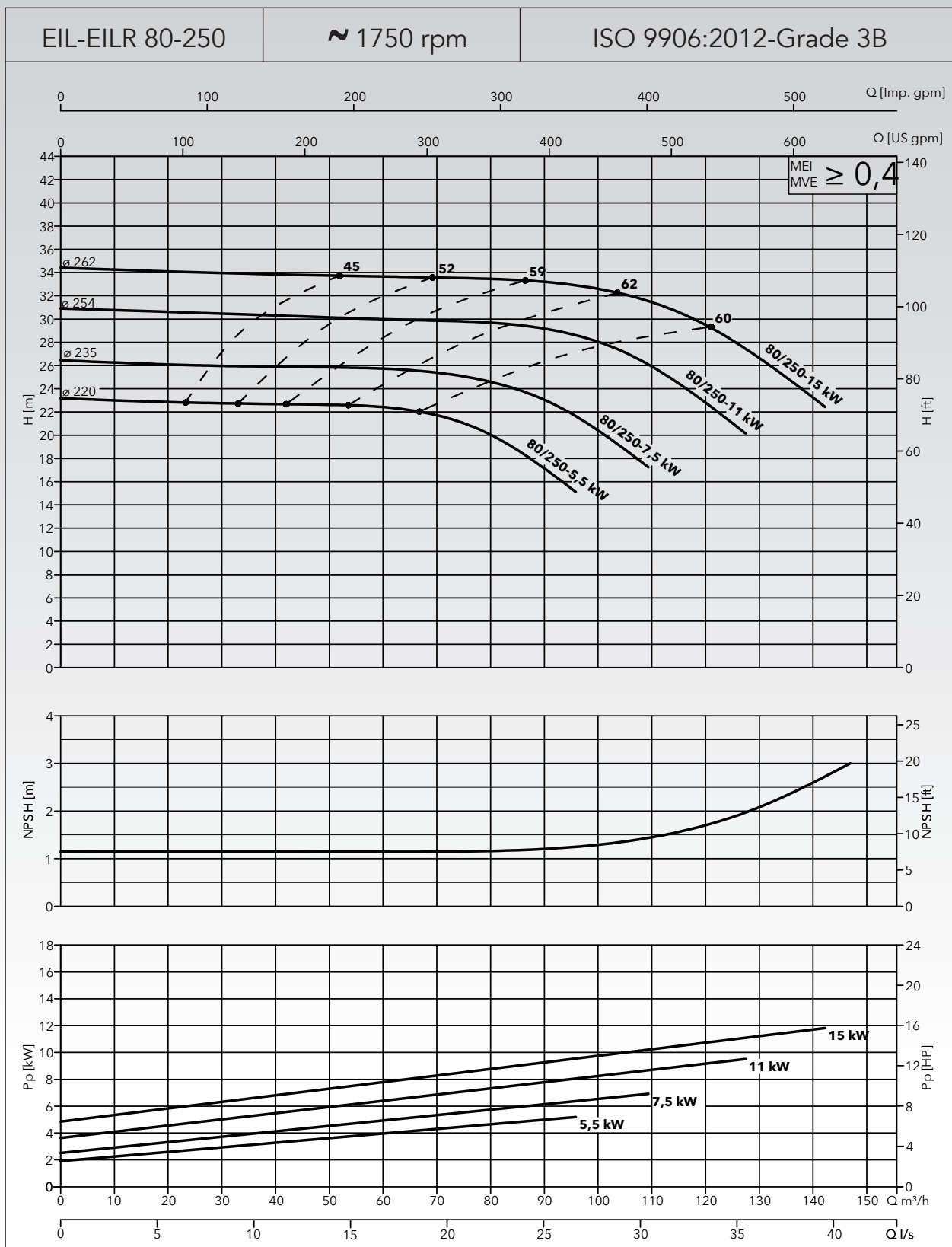


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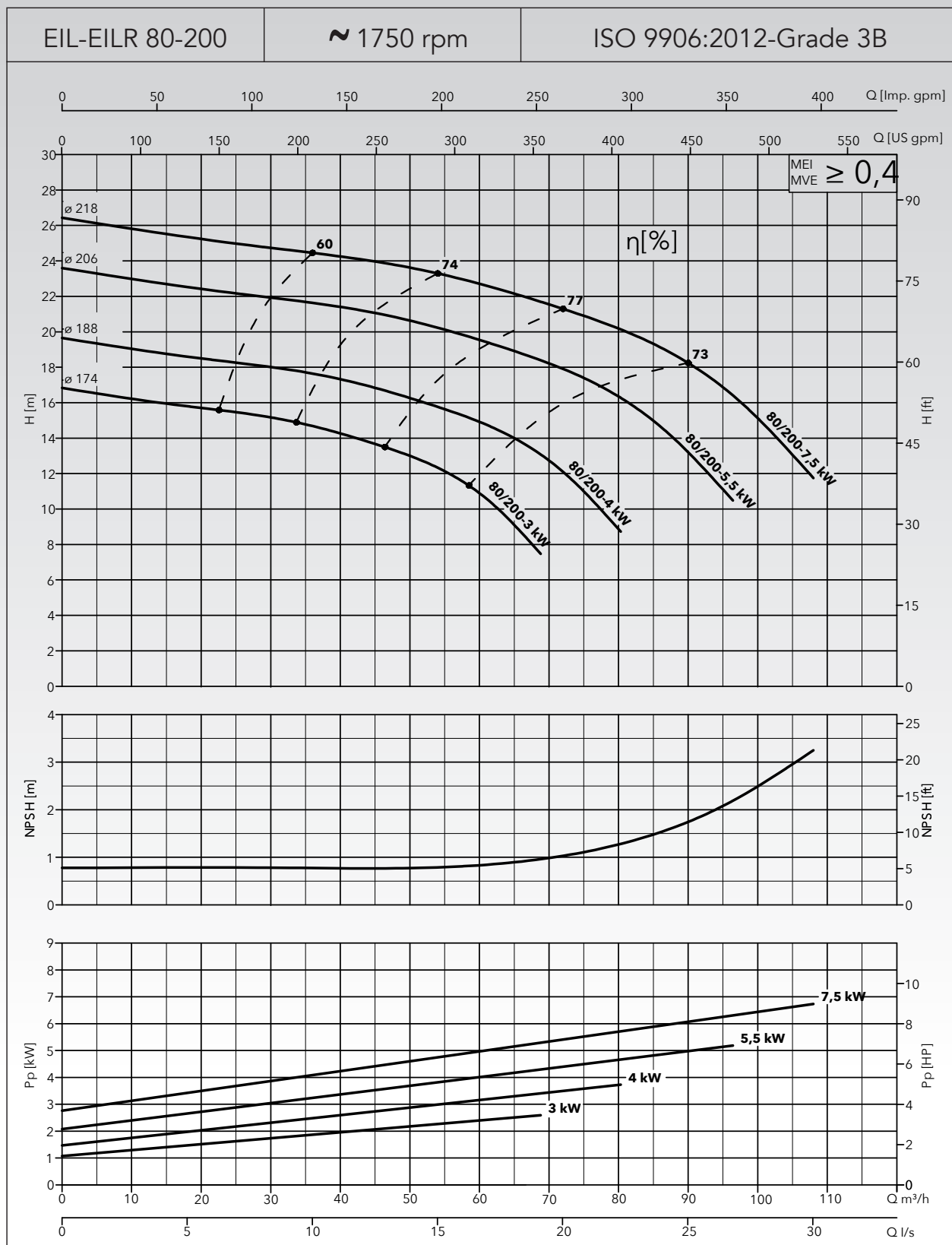
EILR4 SERIES HYDRAULIC PERFORMANCE CURVES

ETNA®



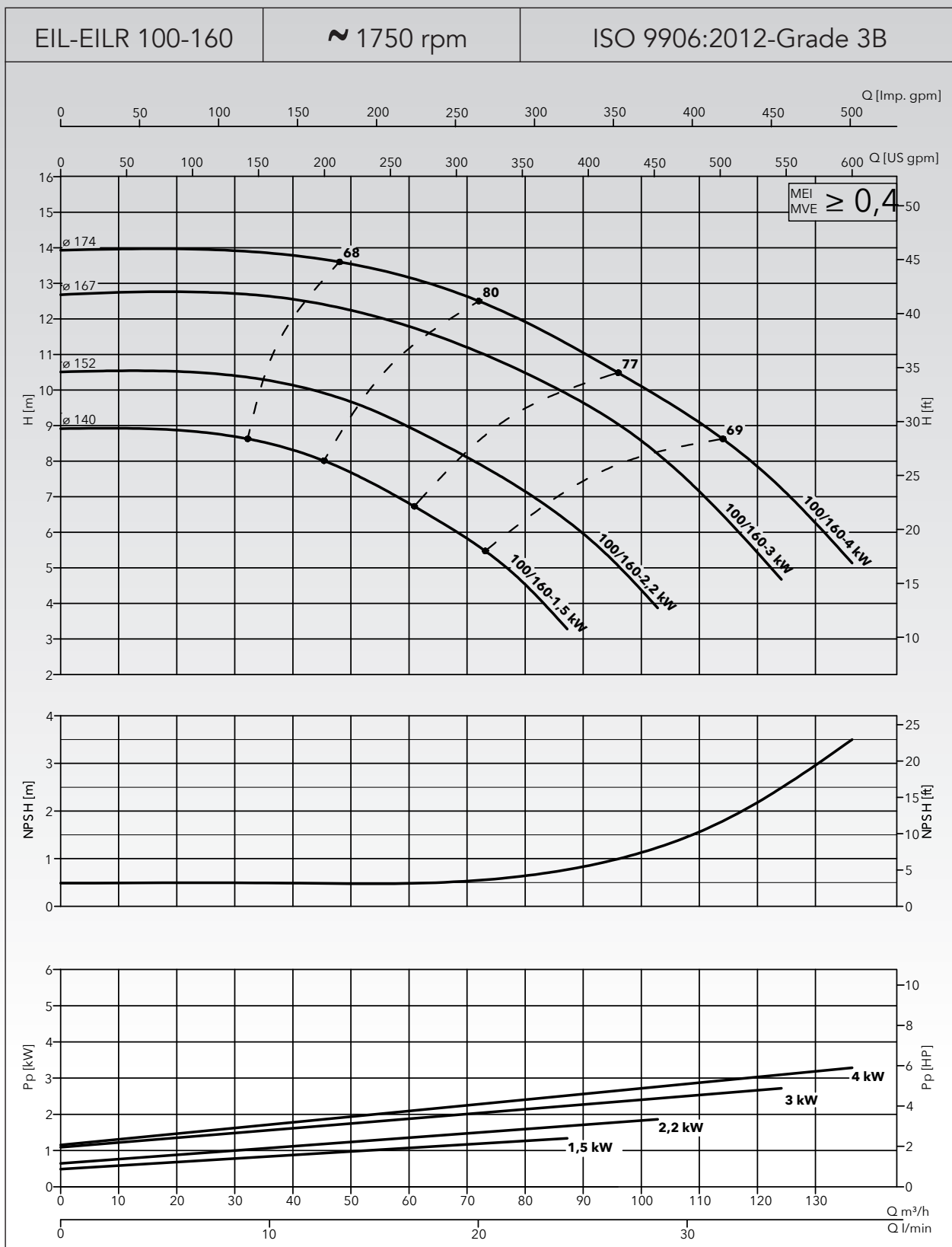
EILR4 SERIES

HYDRAULIC PERFORMANCE CURVES

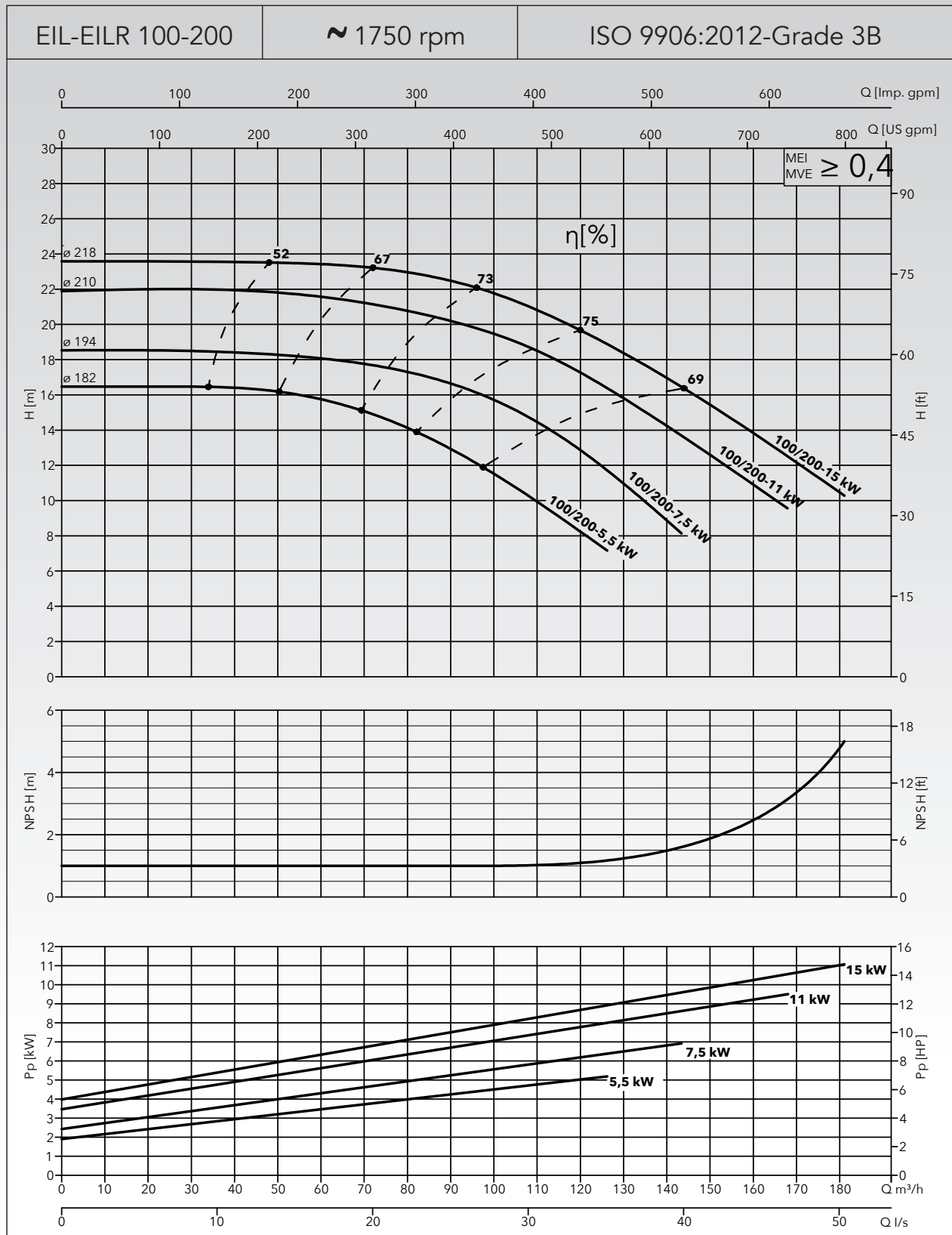


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ETNA®

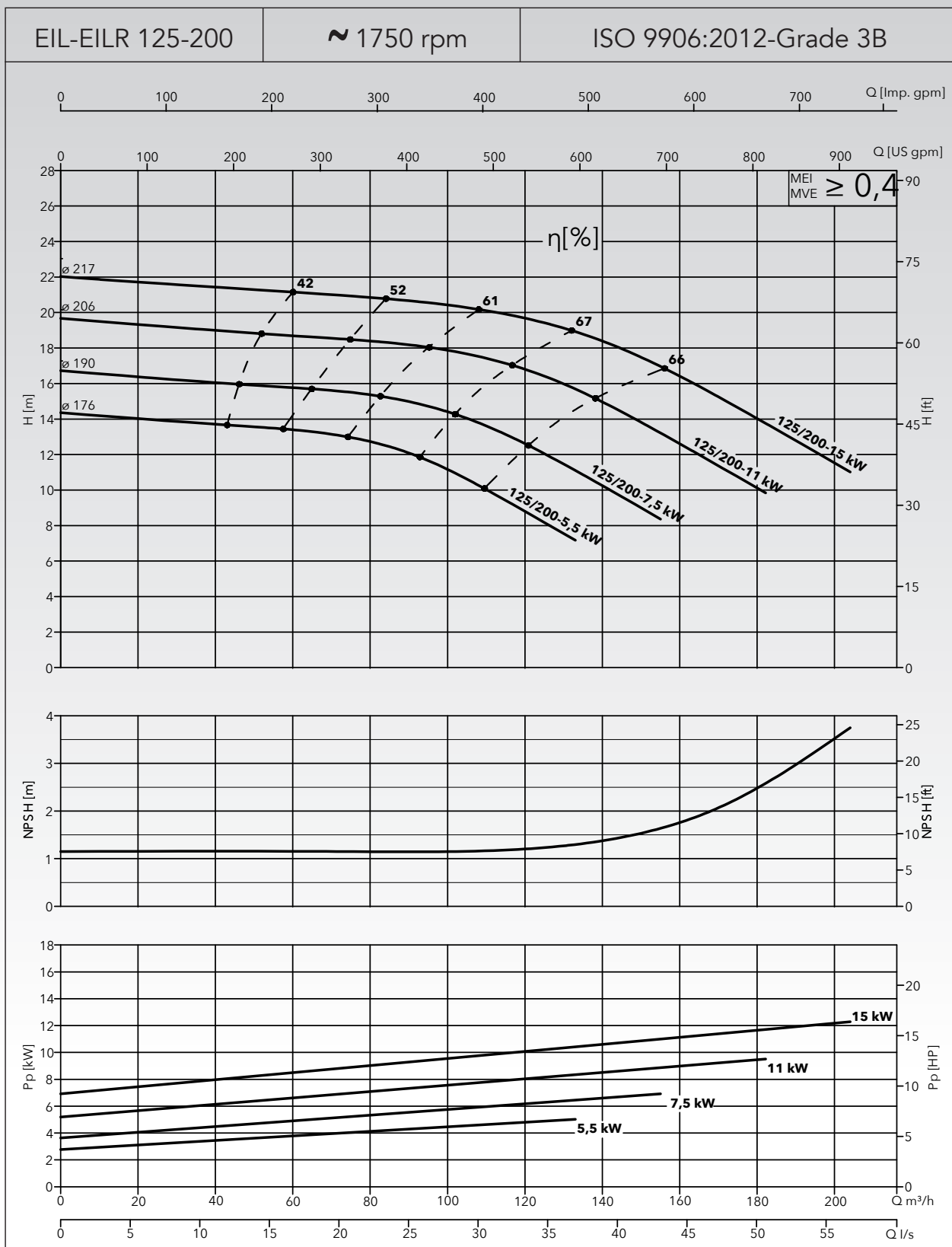


EILR4 SERIES HYDRAULIC PERFORMANCE CURVES

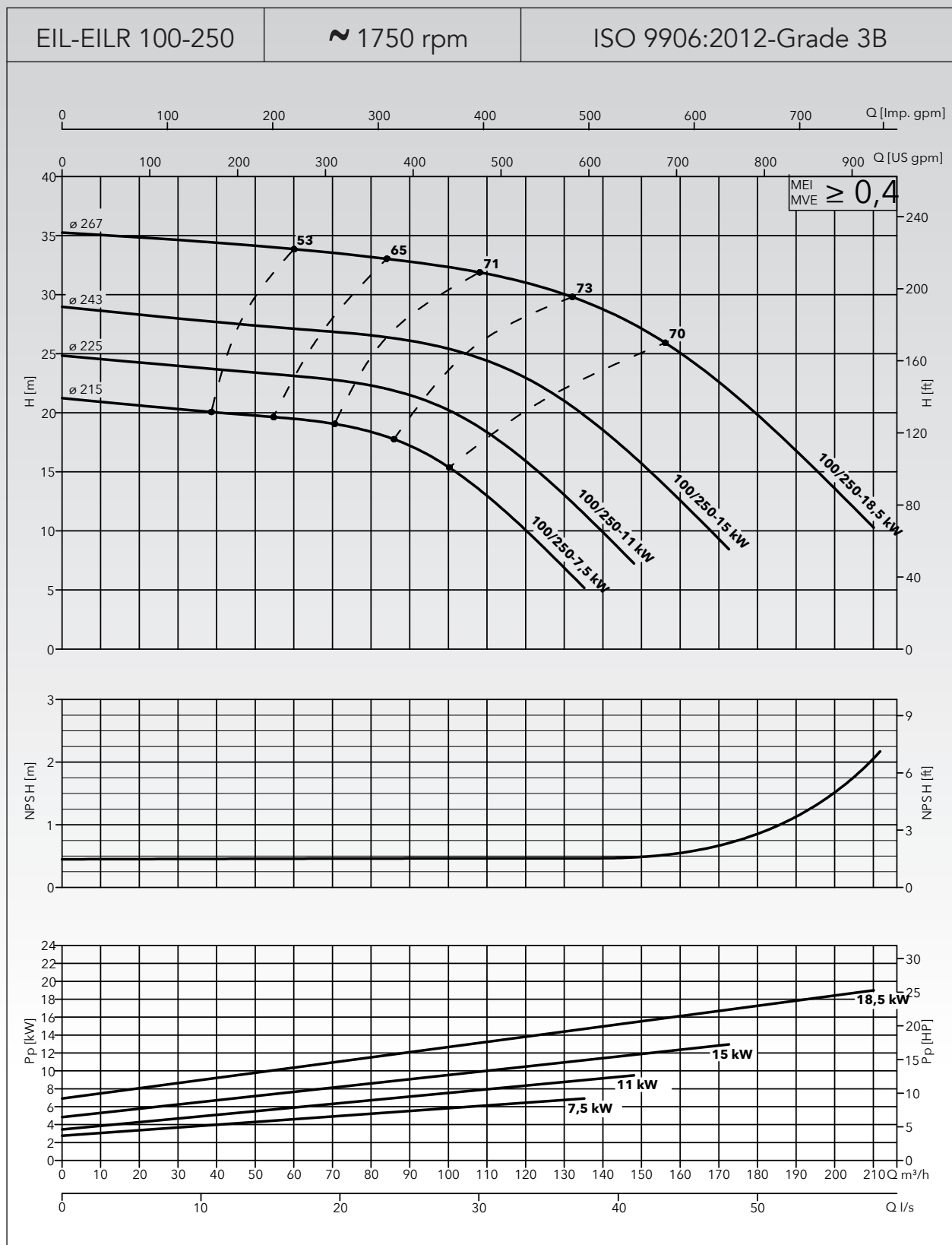


EILR4 SERIES HYDRAULIC PERFORMANCE CURVES

ETNA®

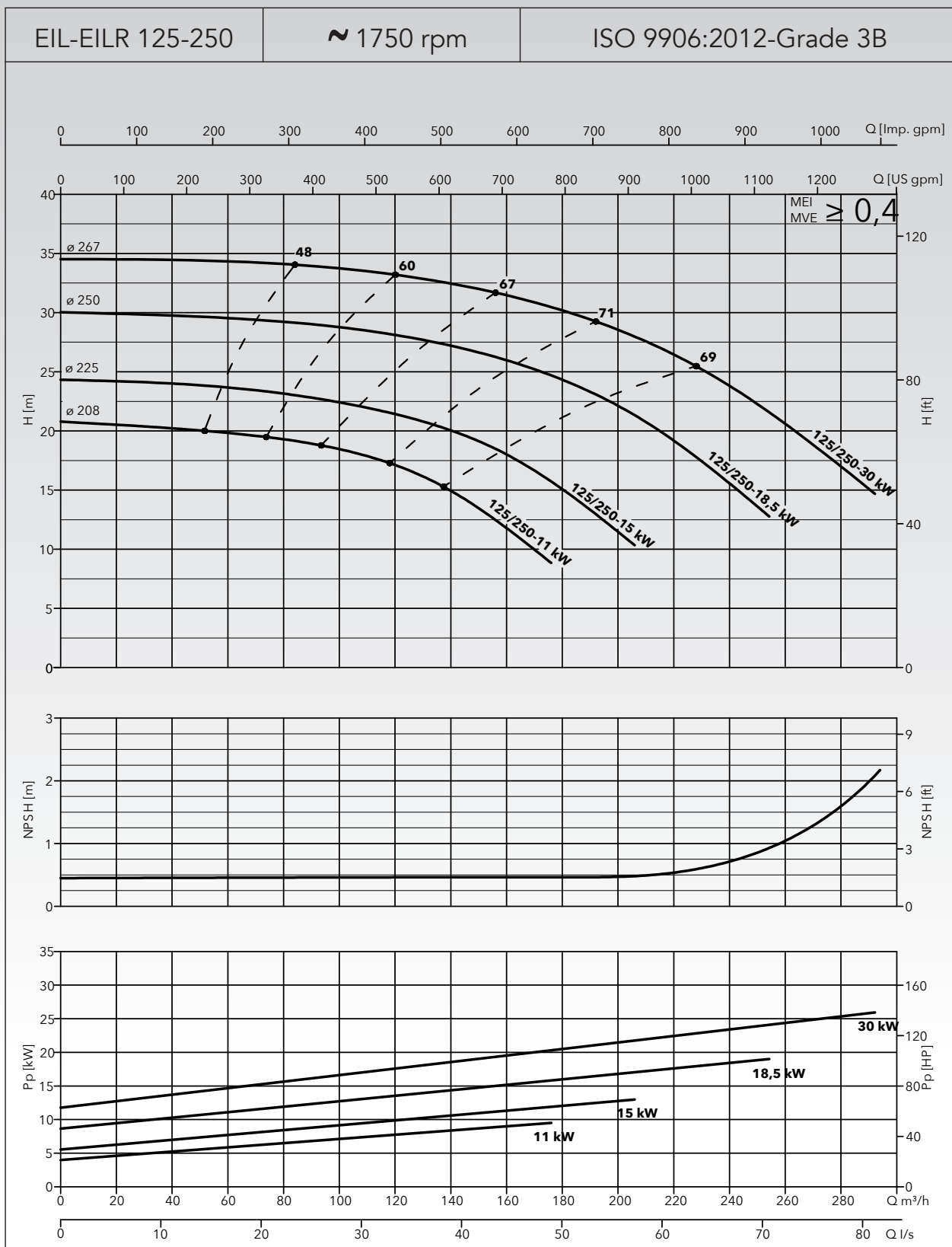


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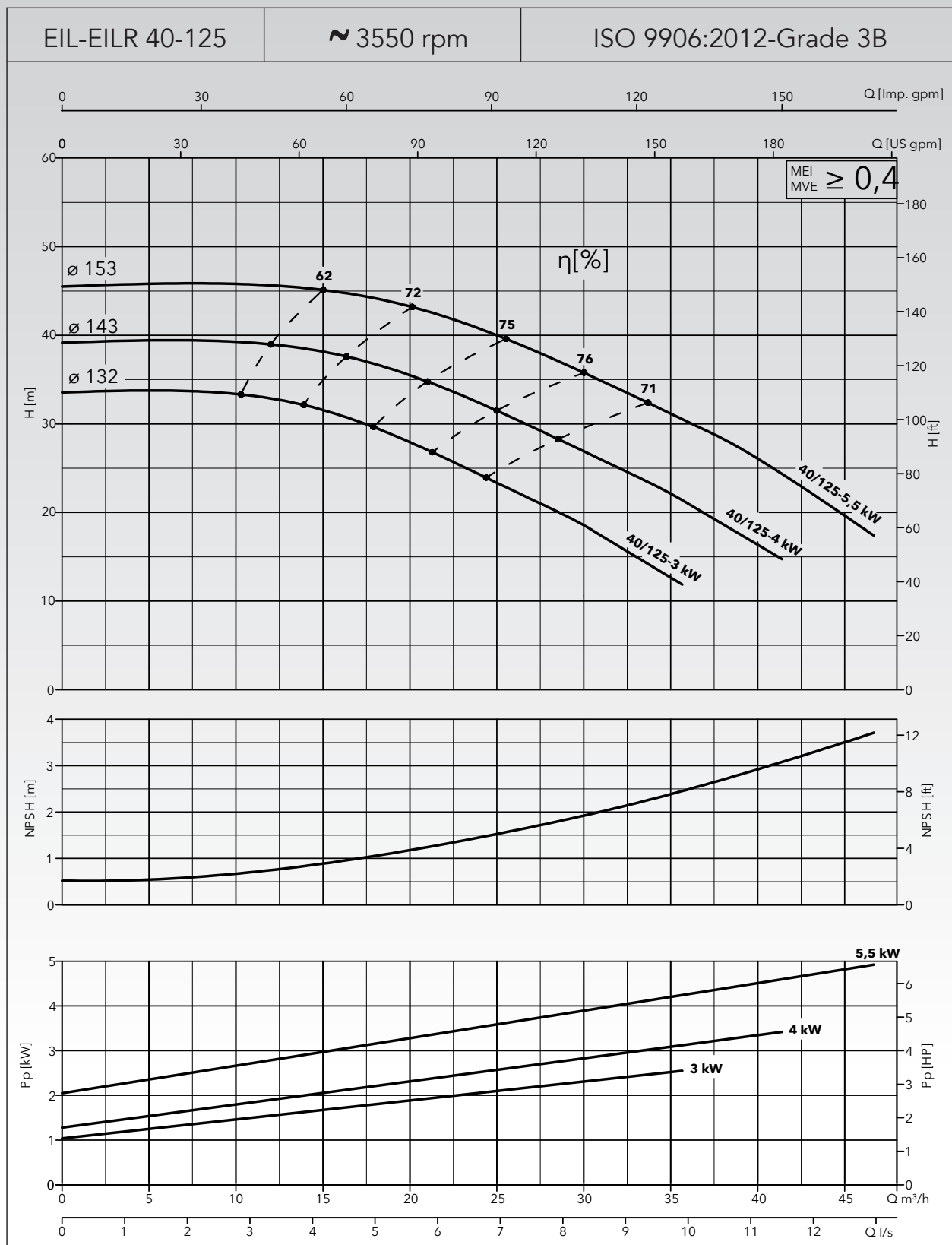


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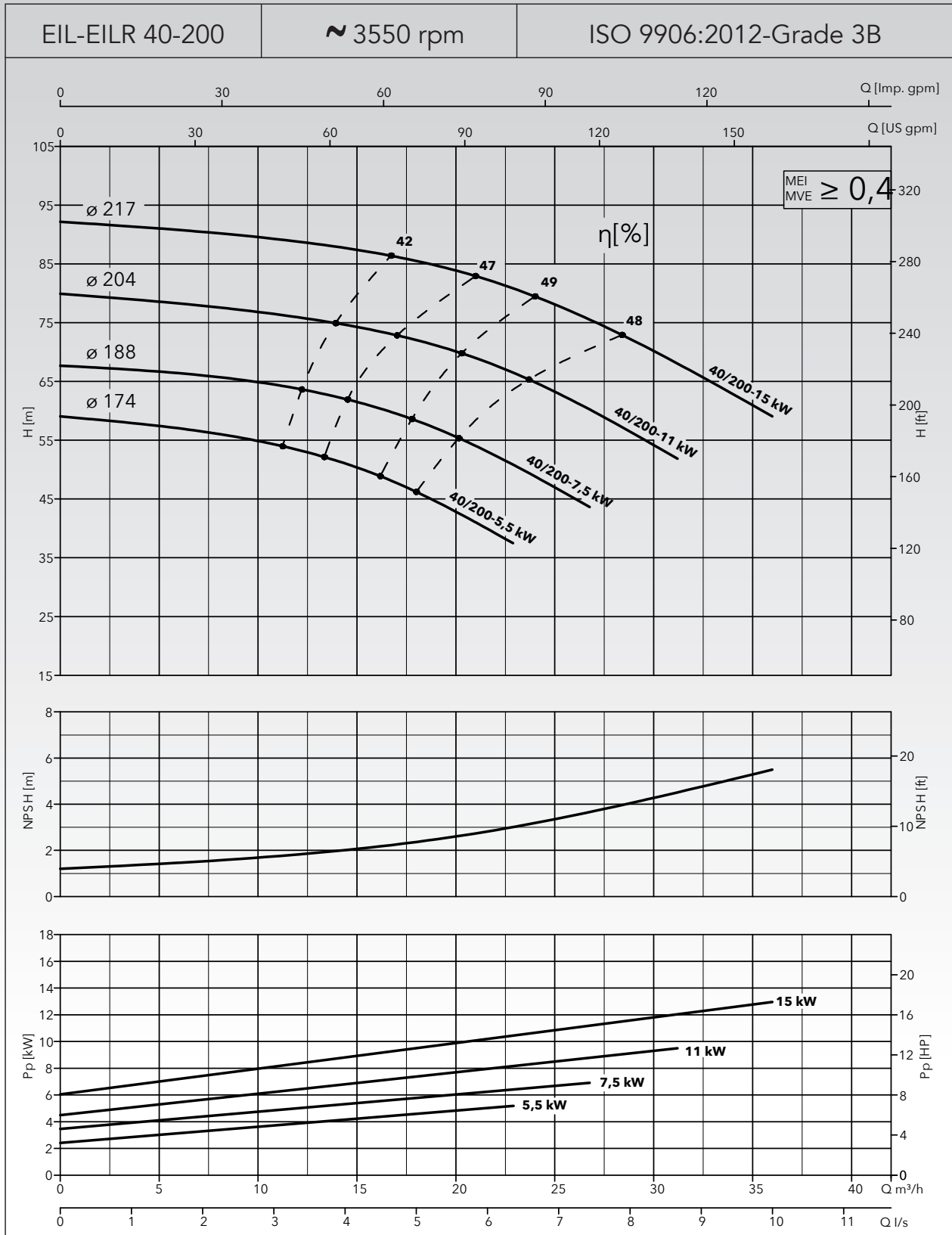


EILR SERIES HYDRAULIC PERFORMANCE CURVES

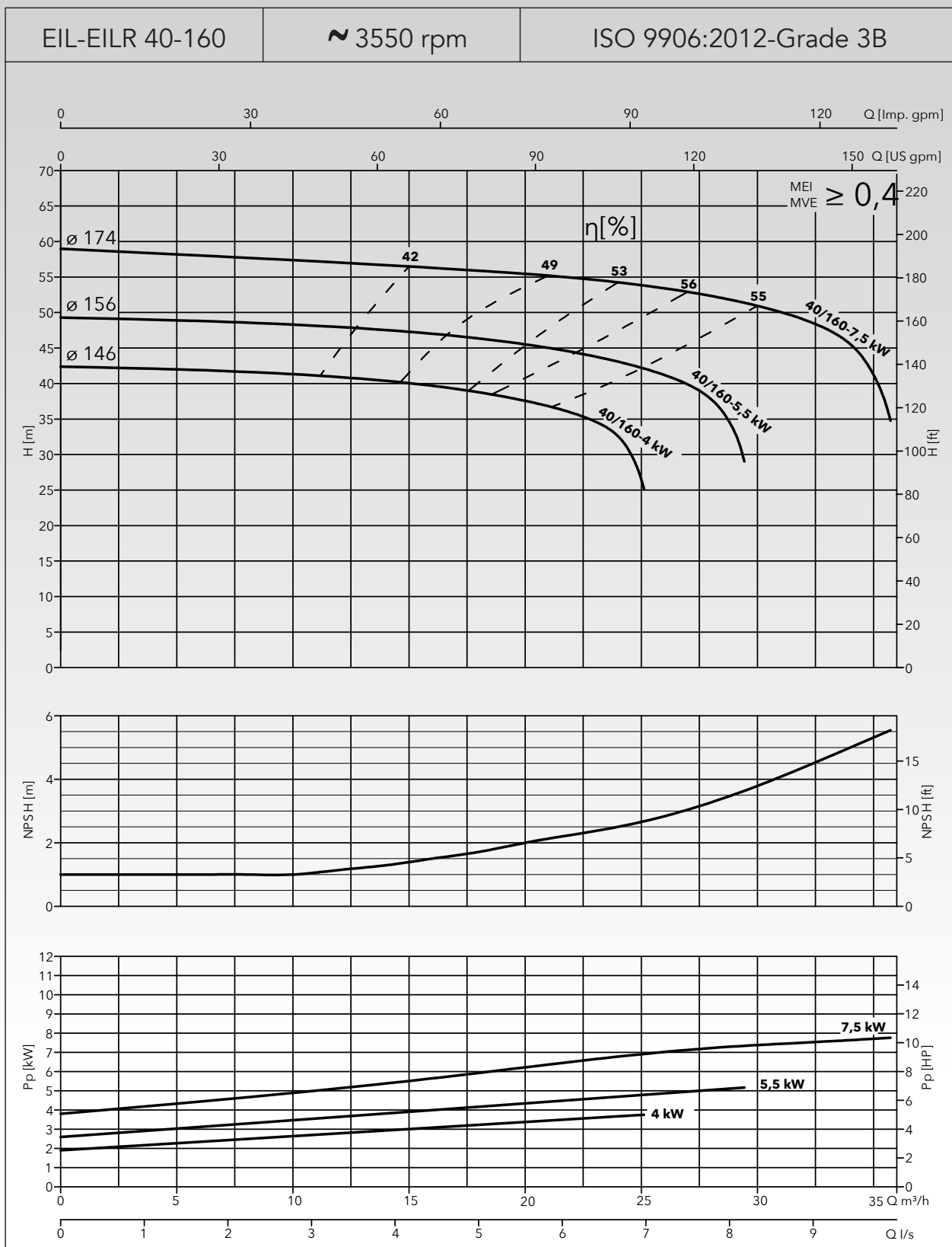


EILR SERIES HYDRAULIC PERFORMANCE CURVES

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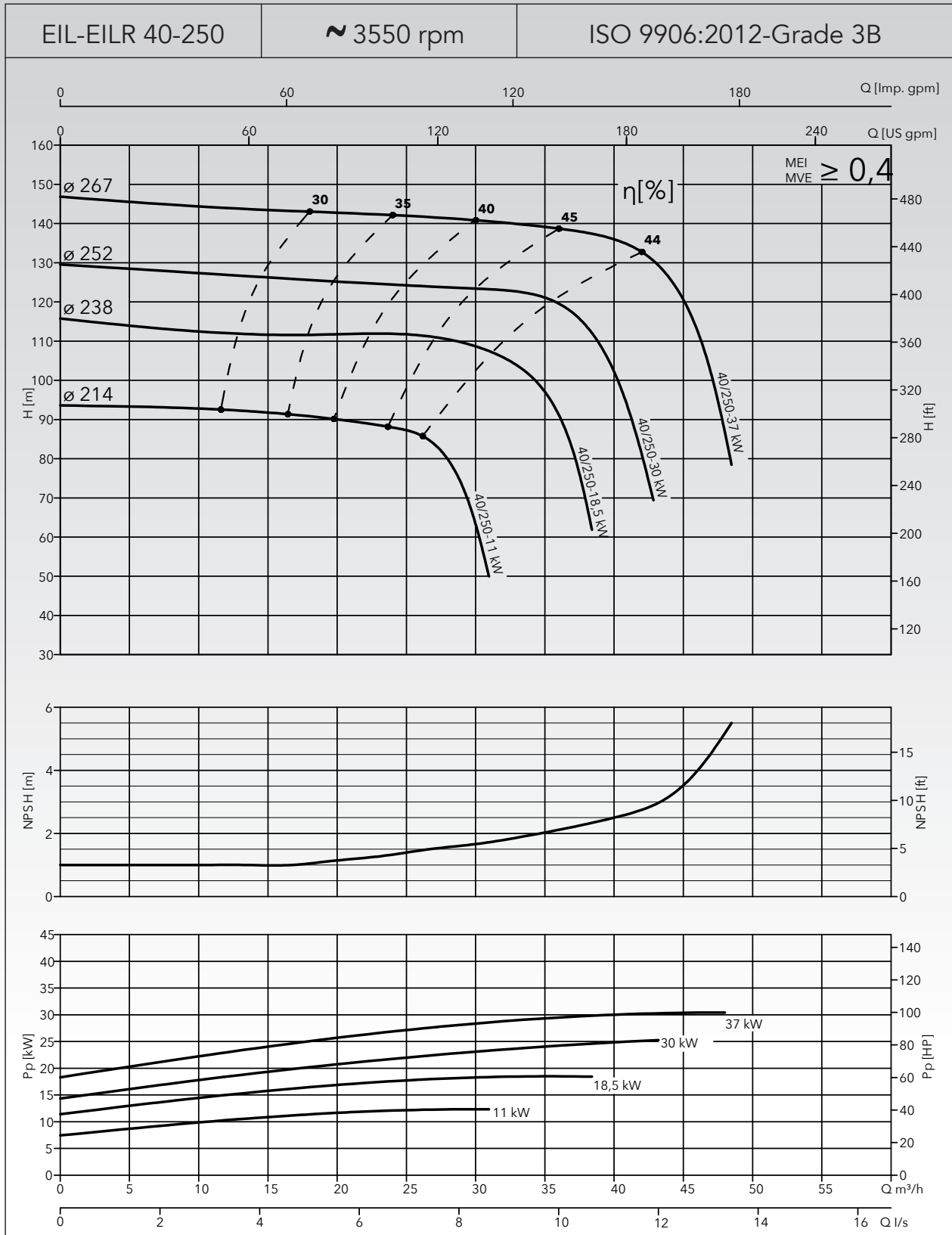


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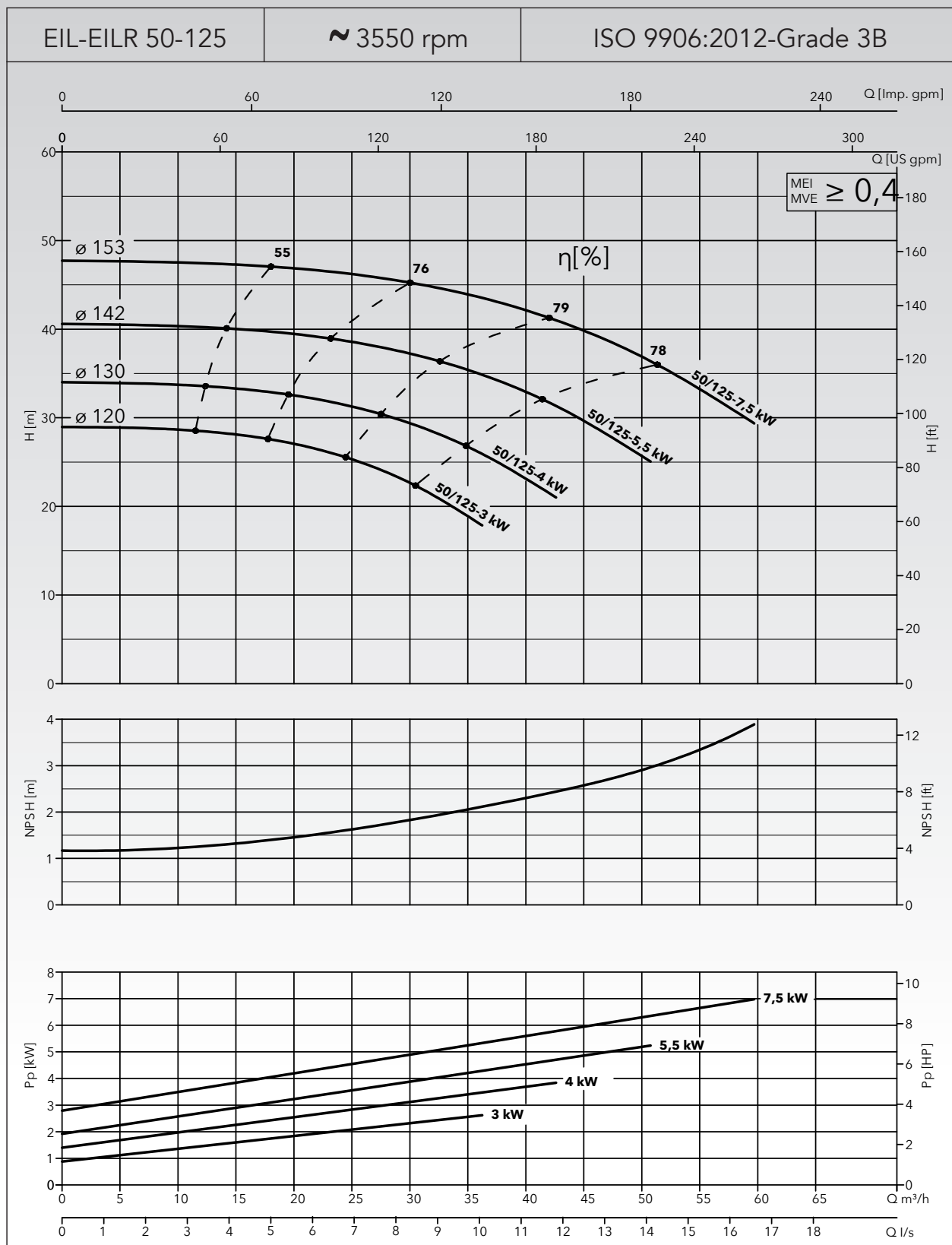


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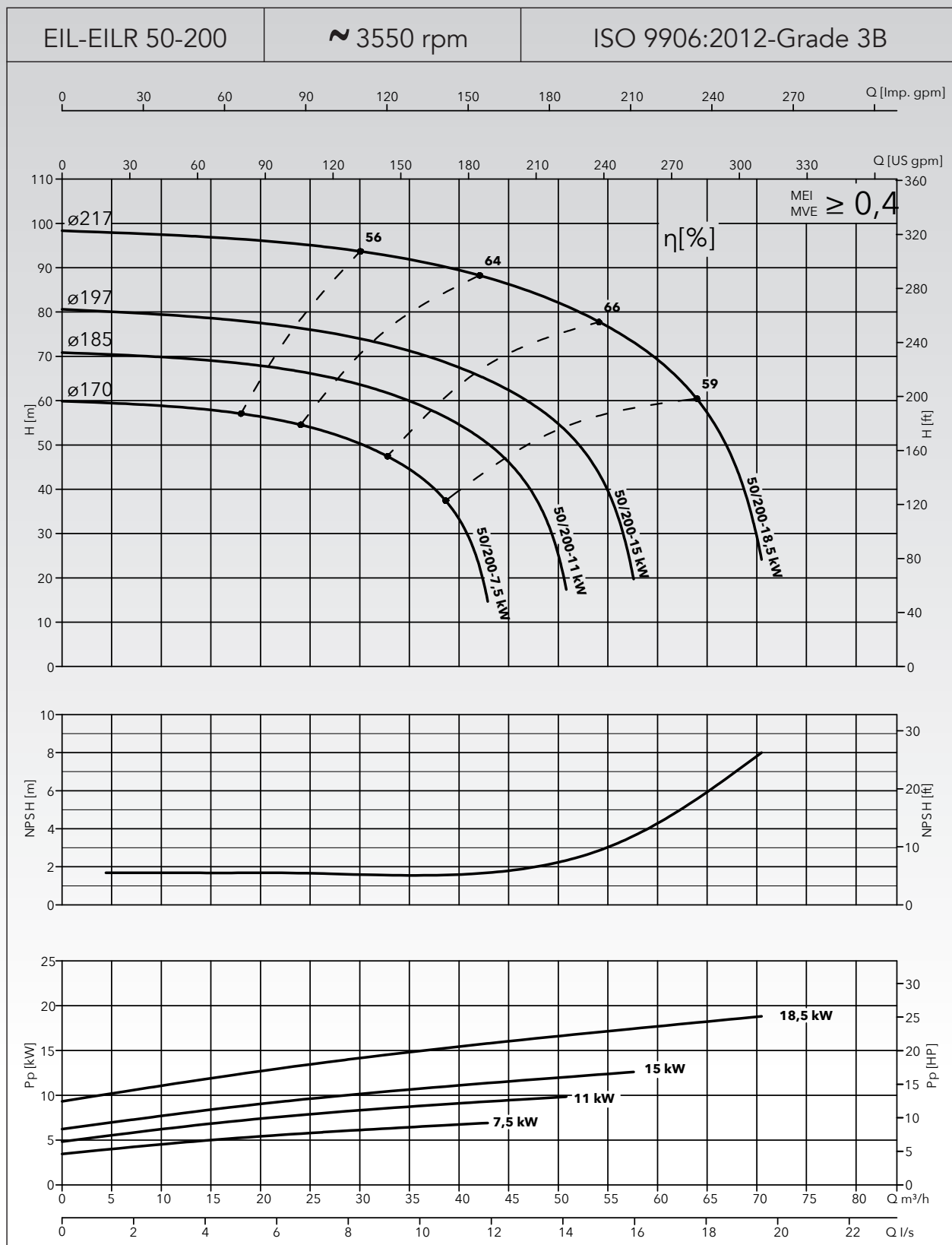


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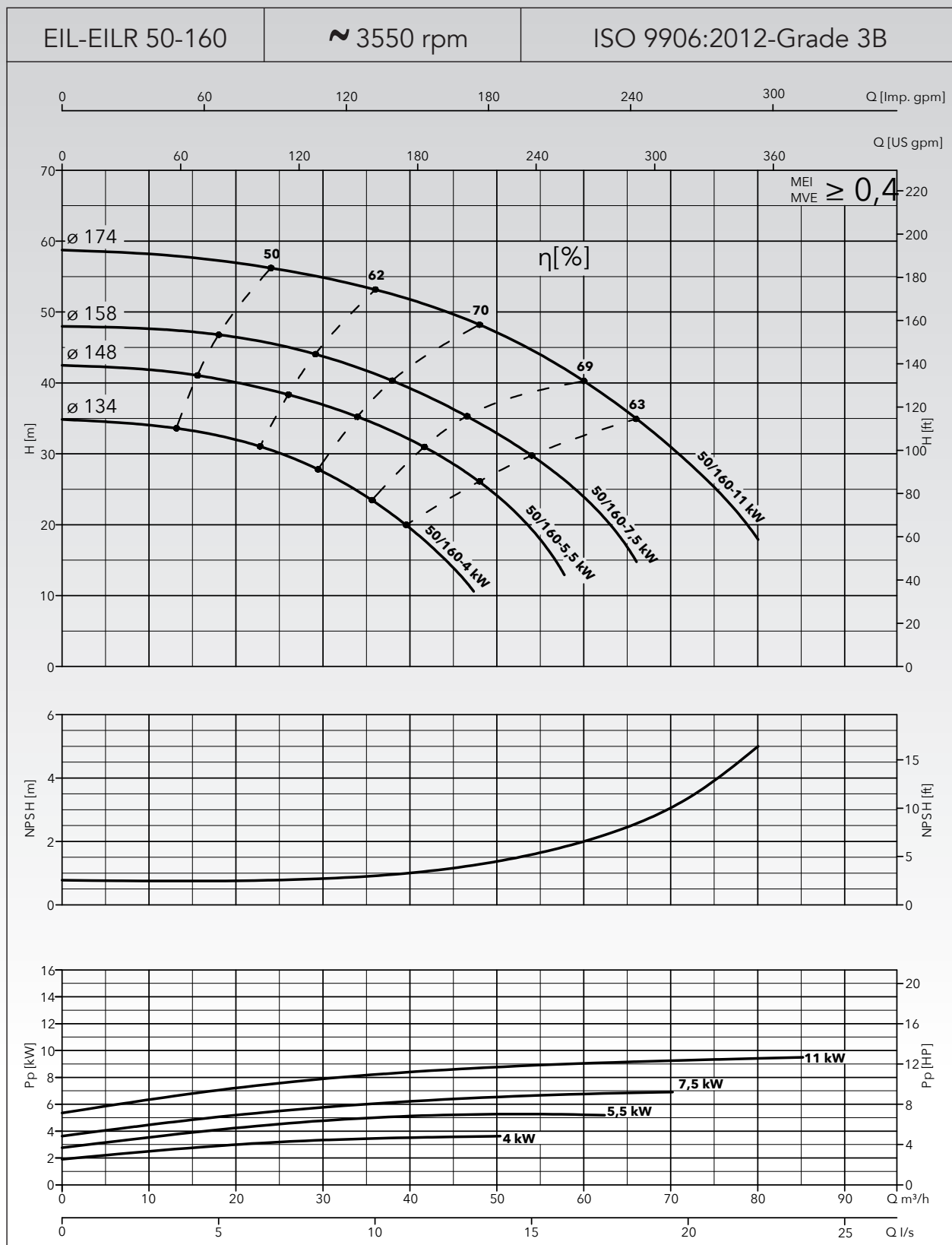


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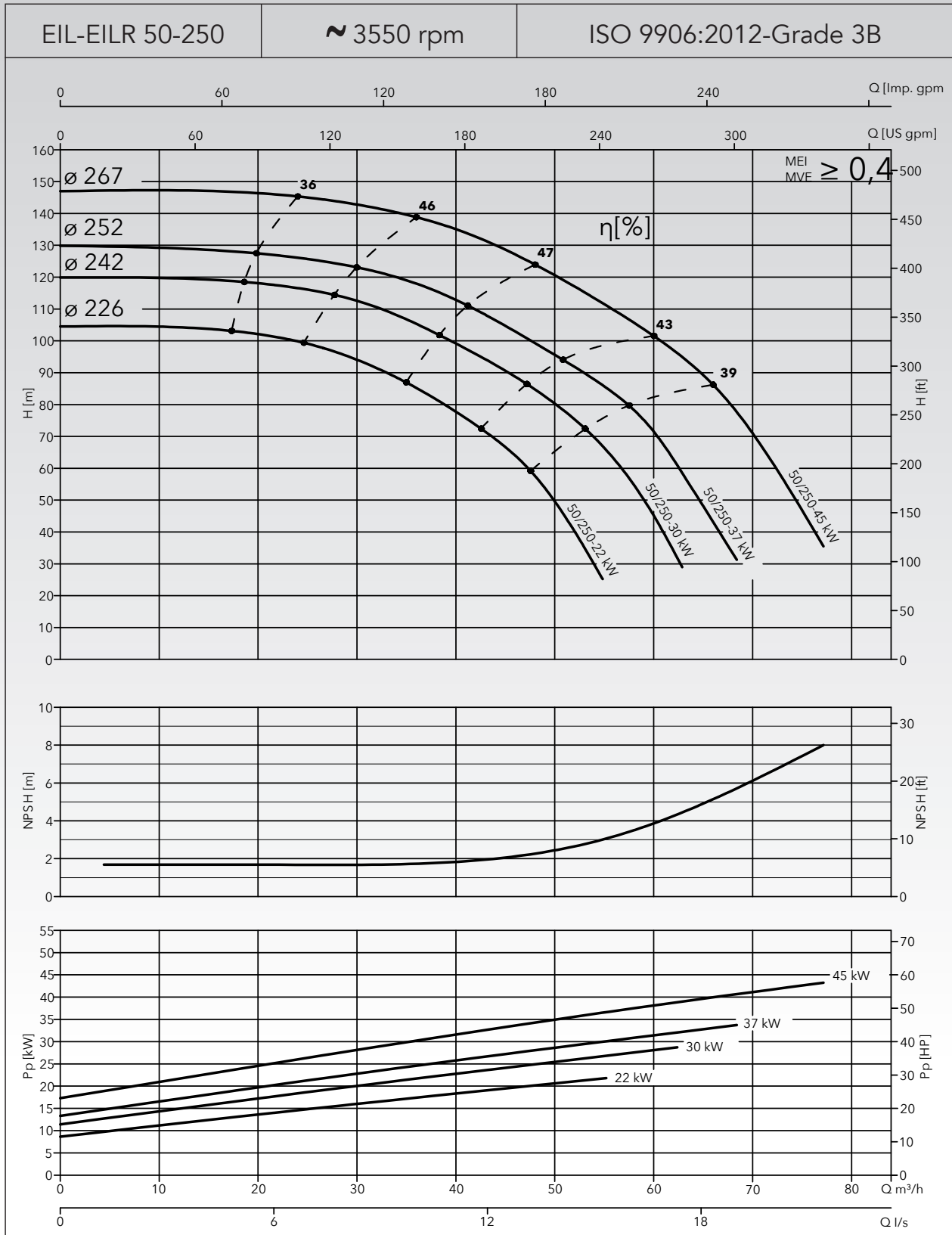


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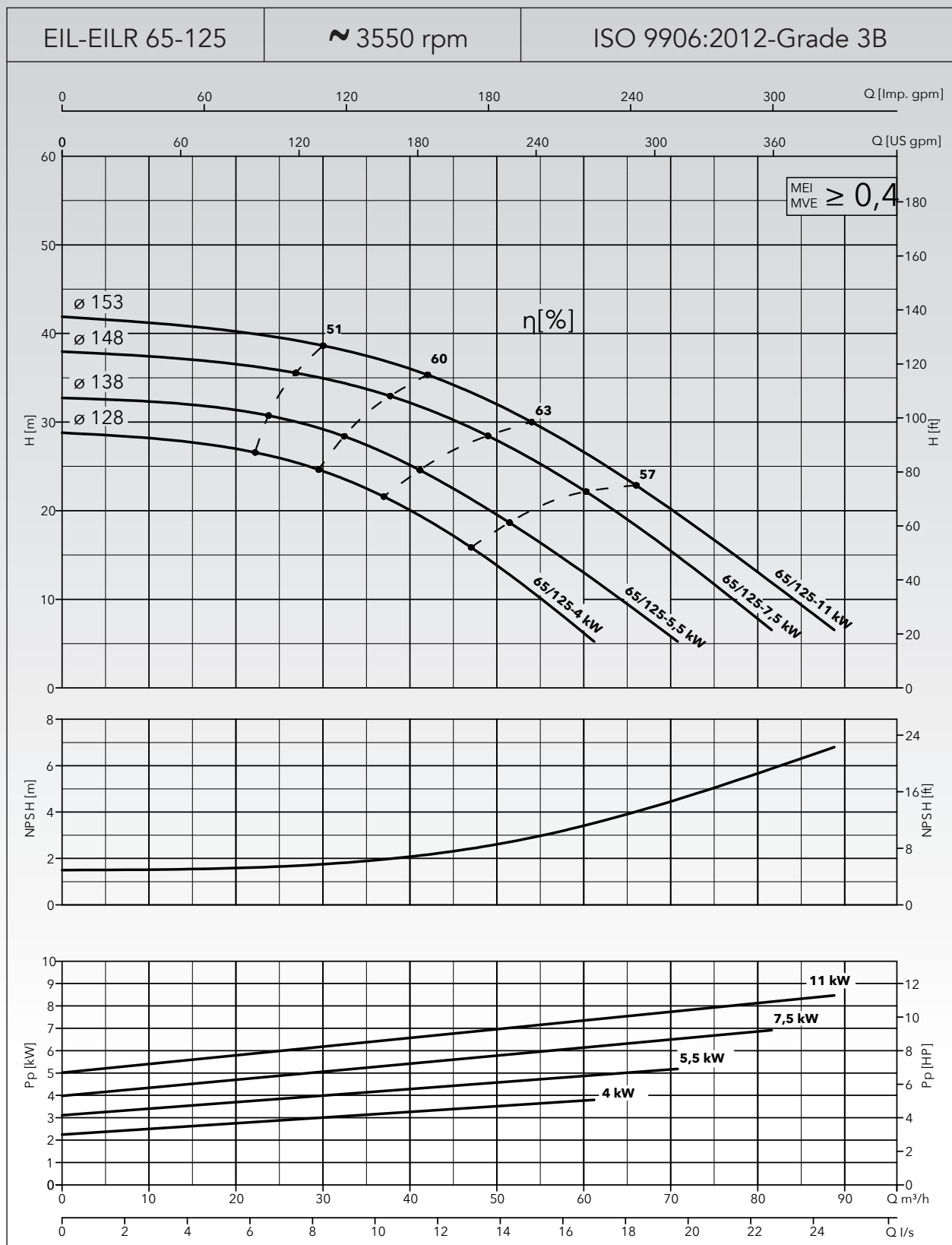


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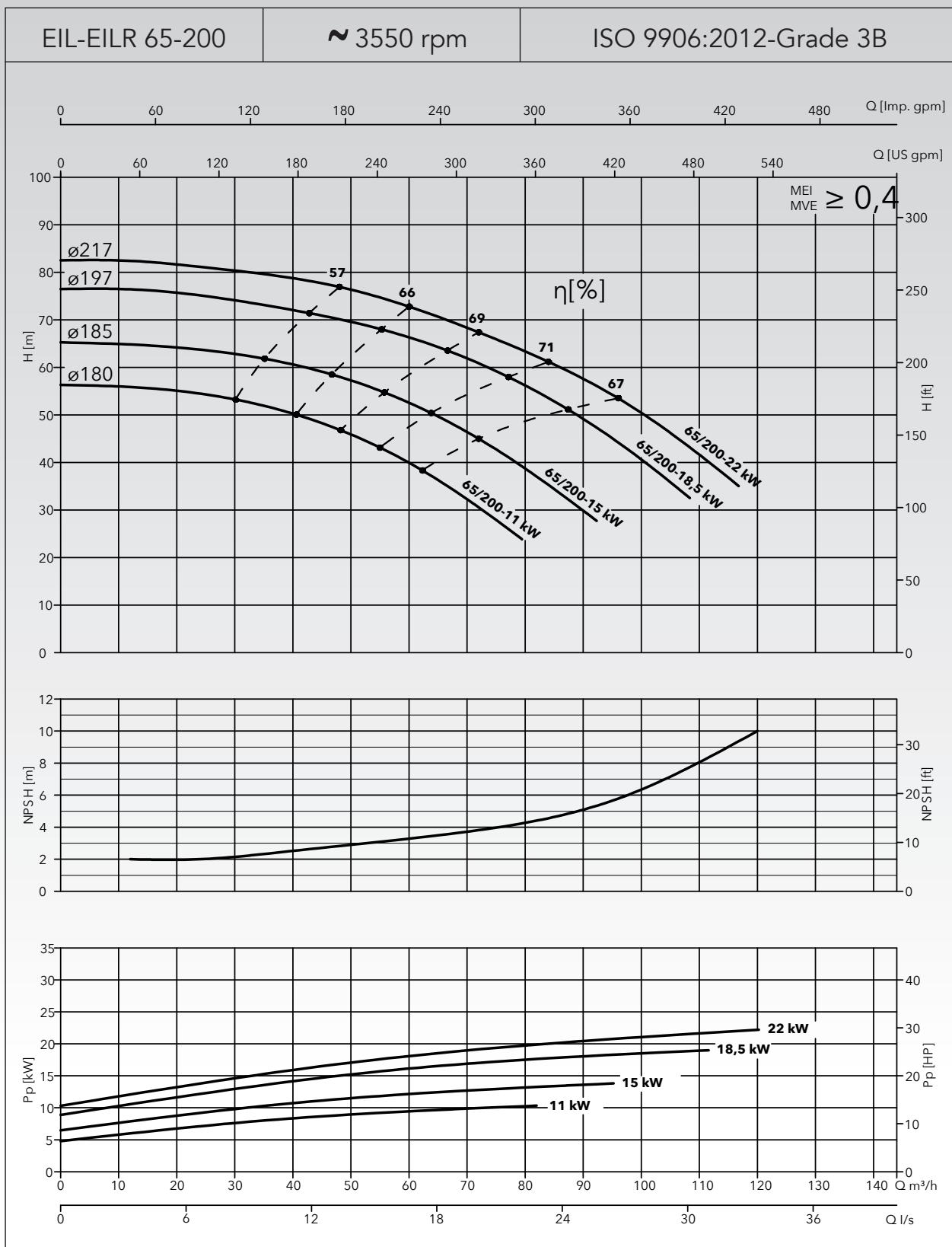


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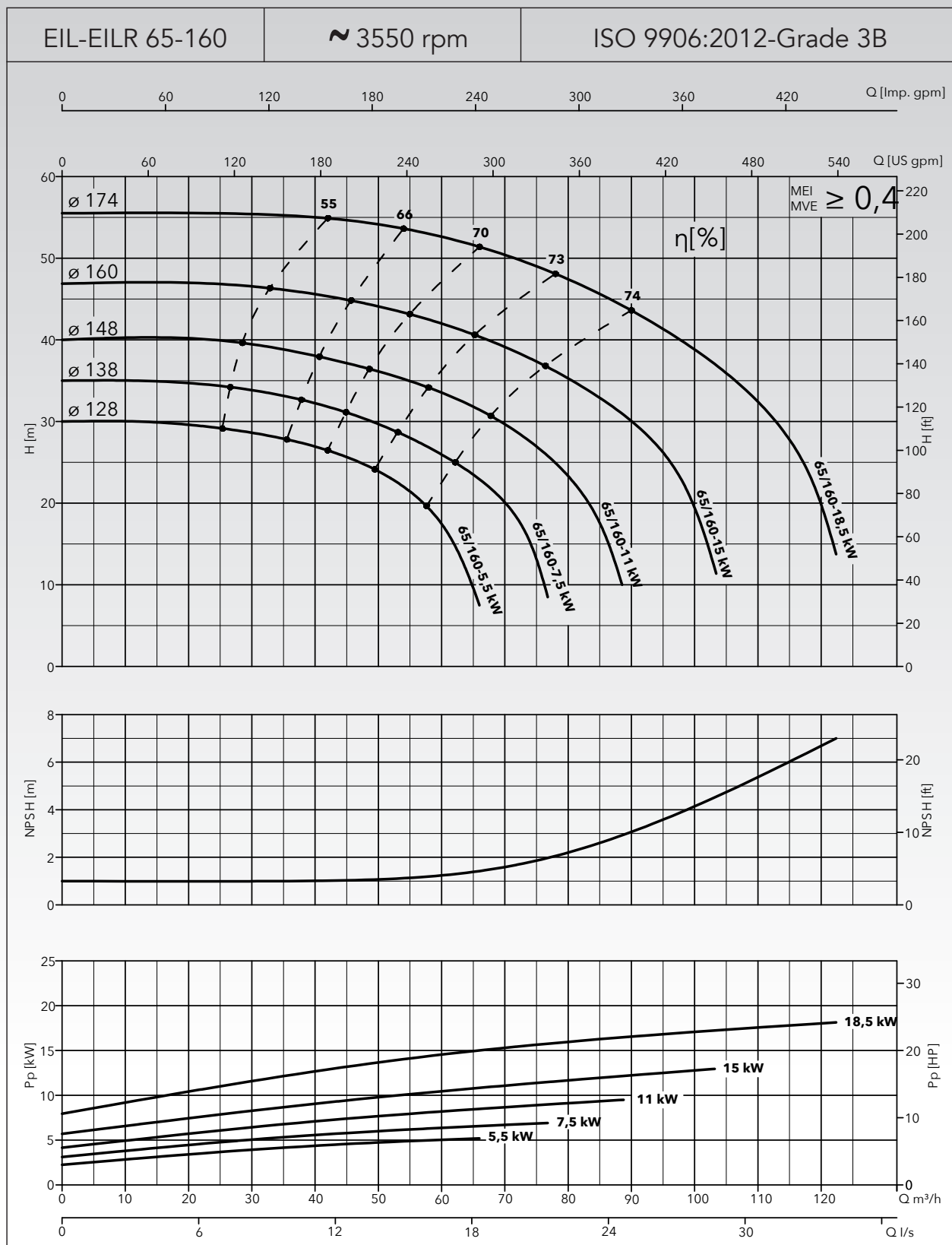


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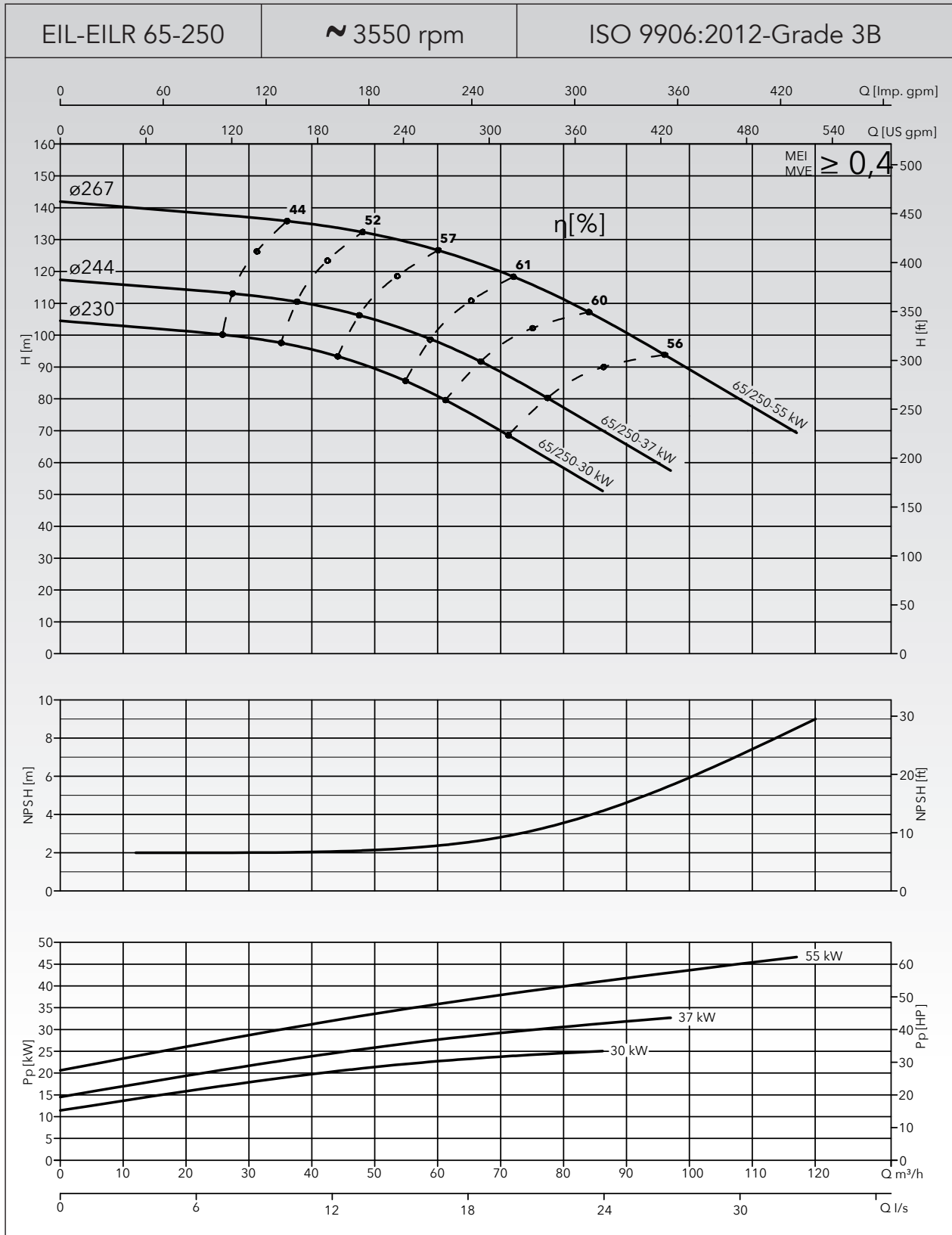


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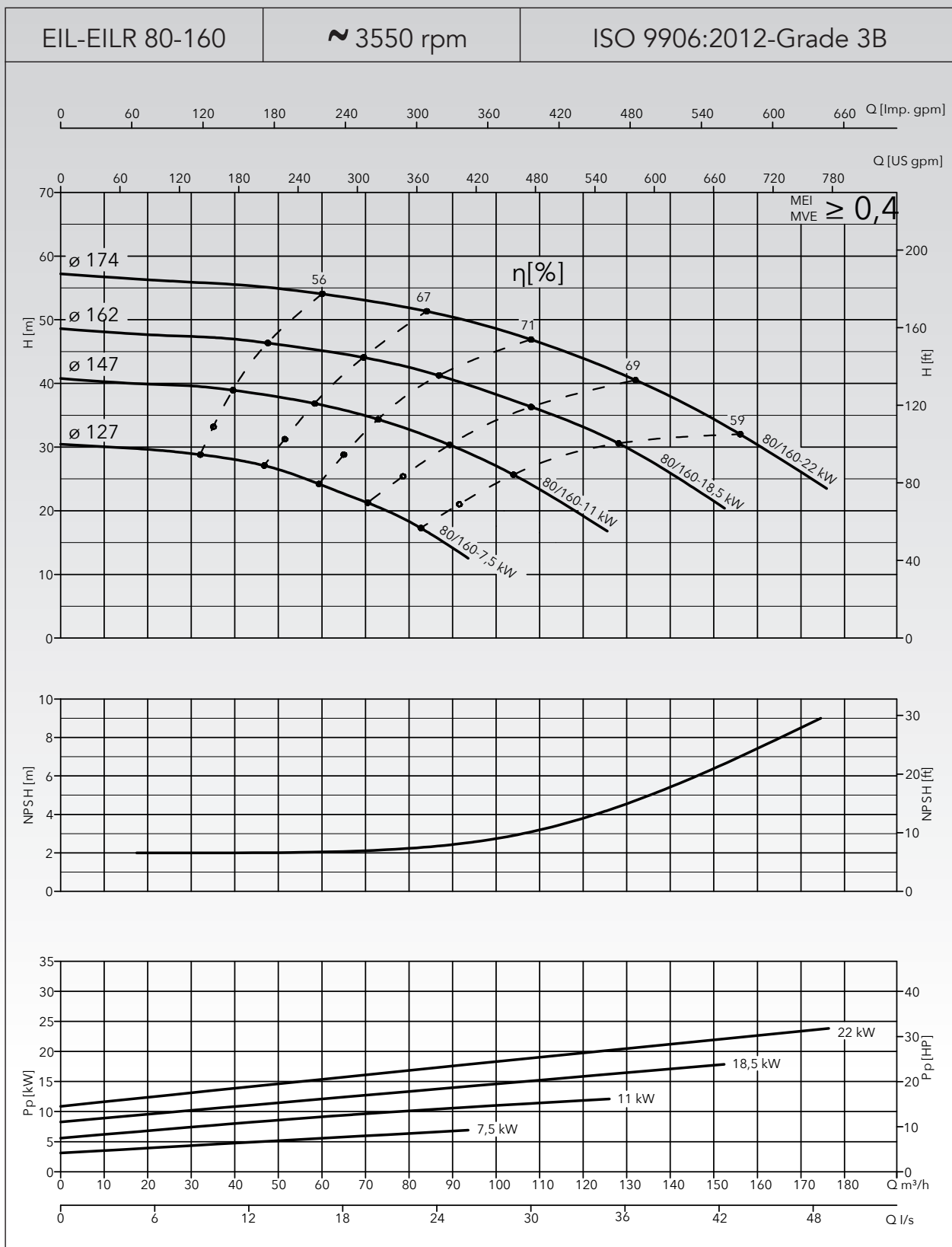


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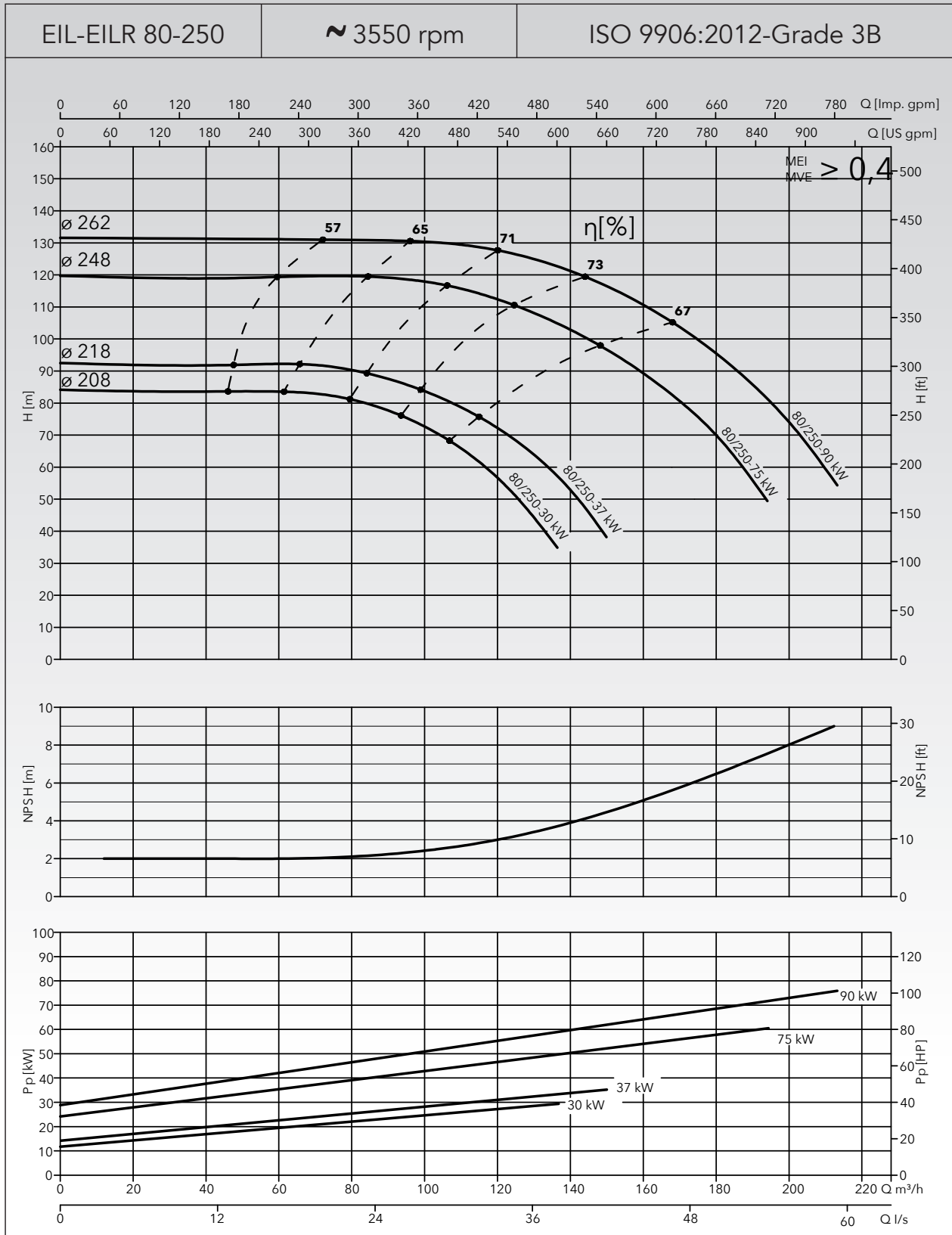


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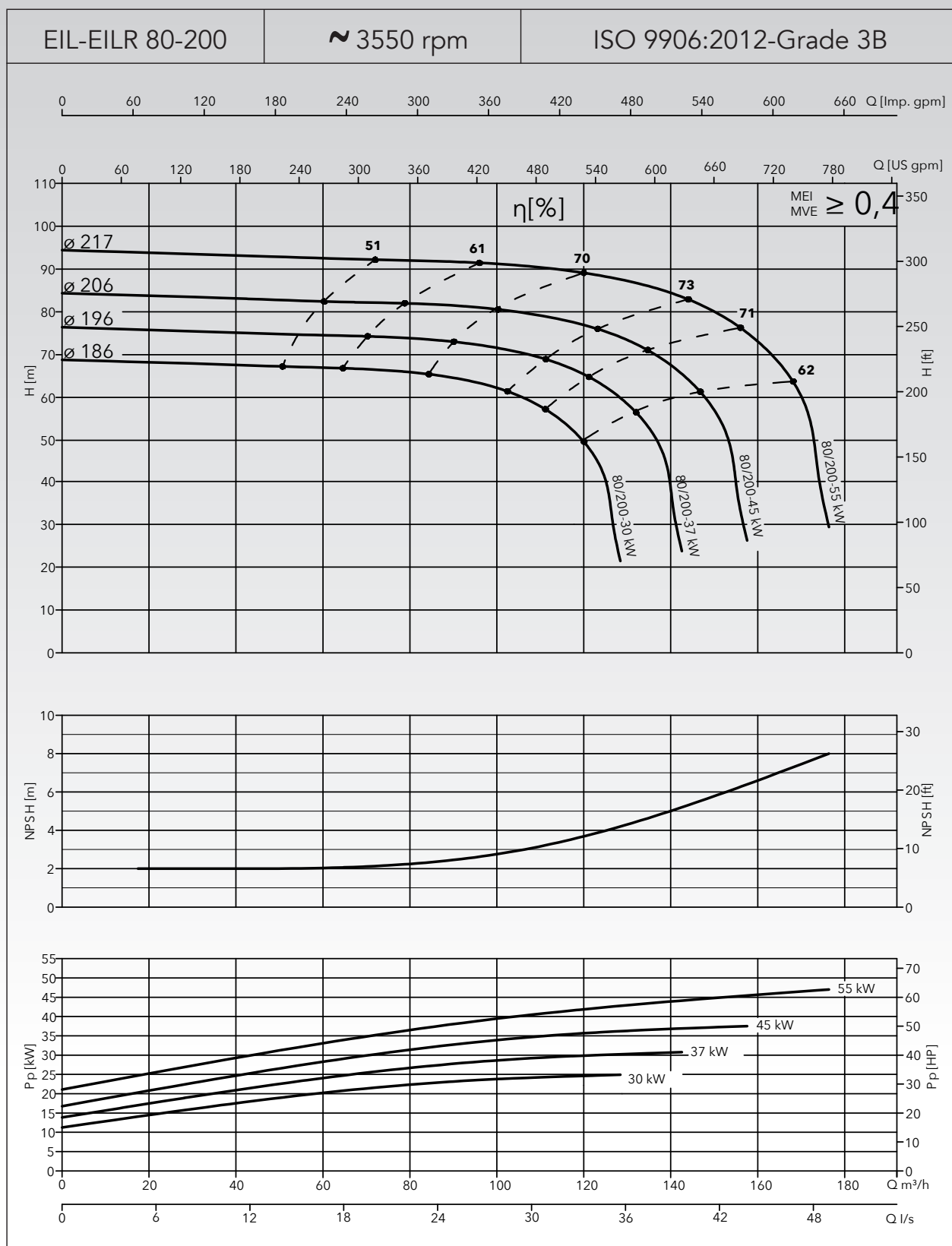


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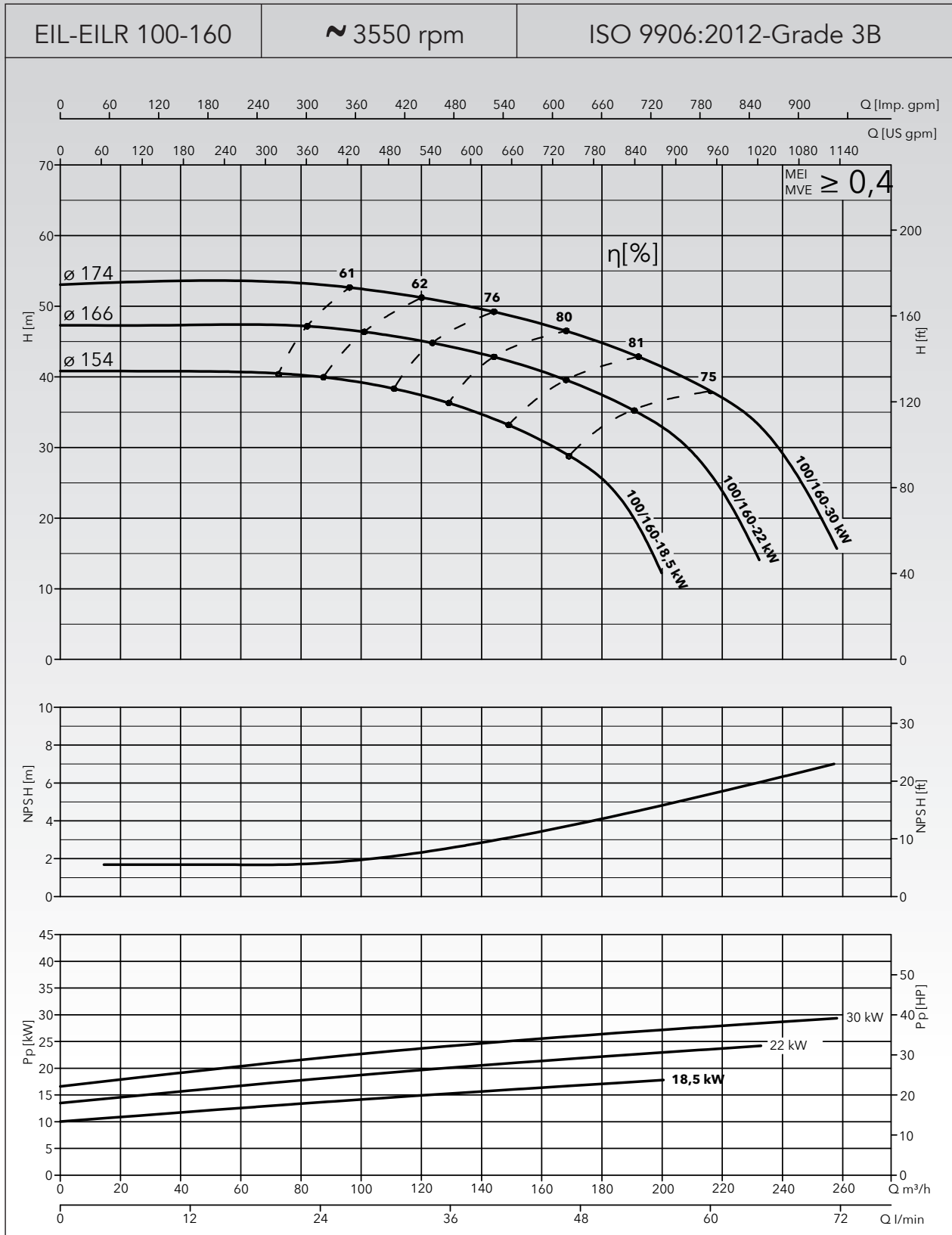


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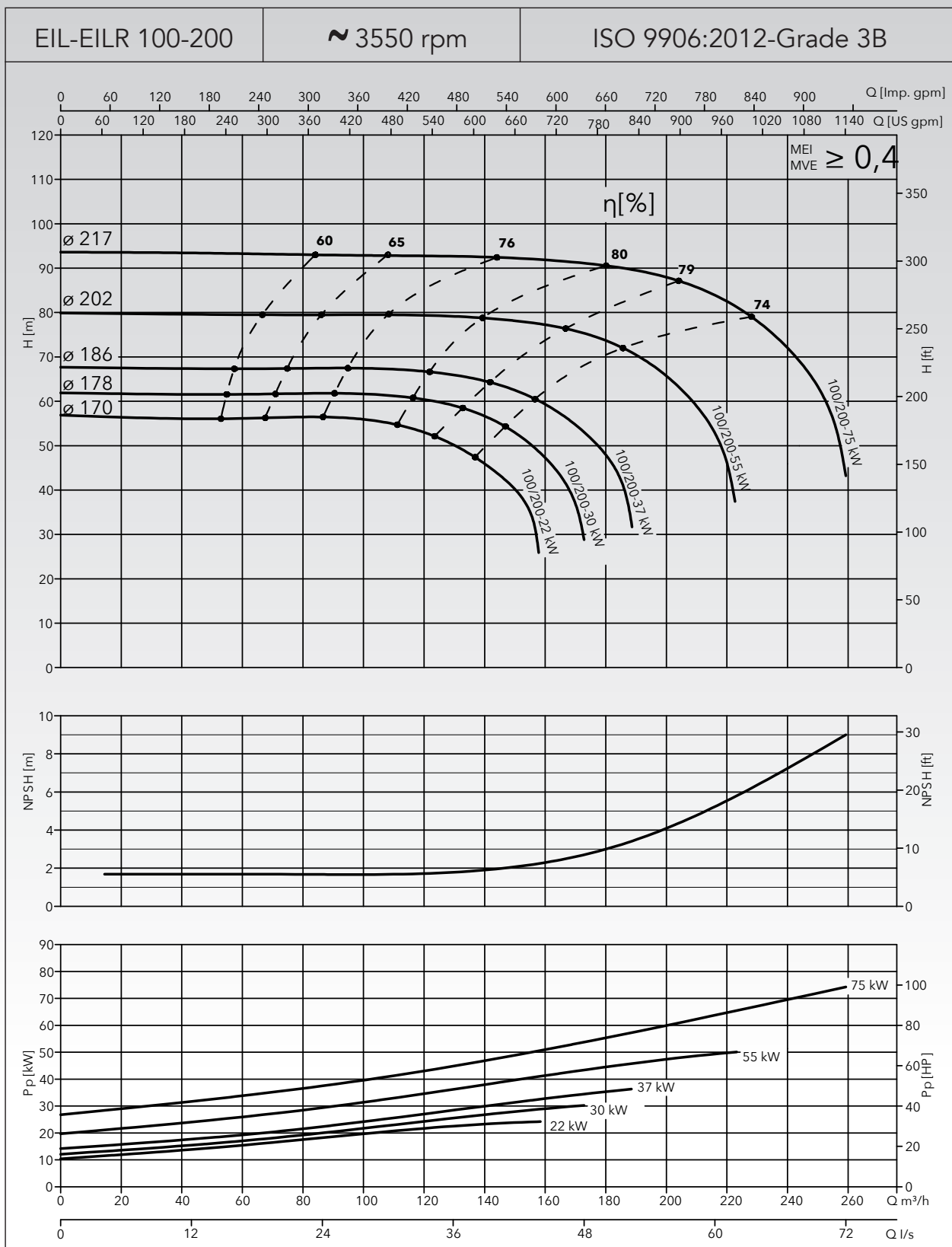


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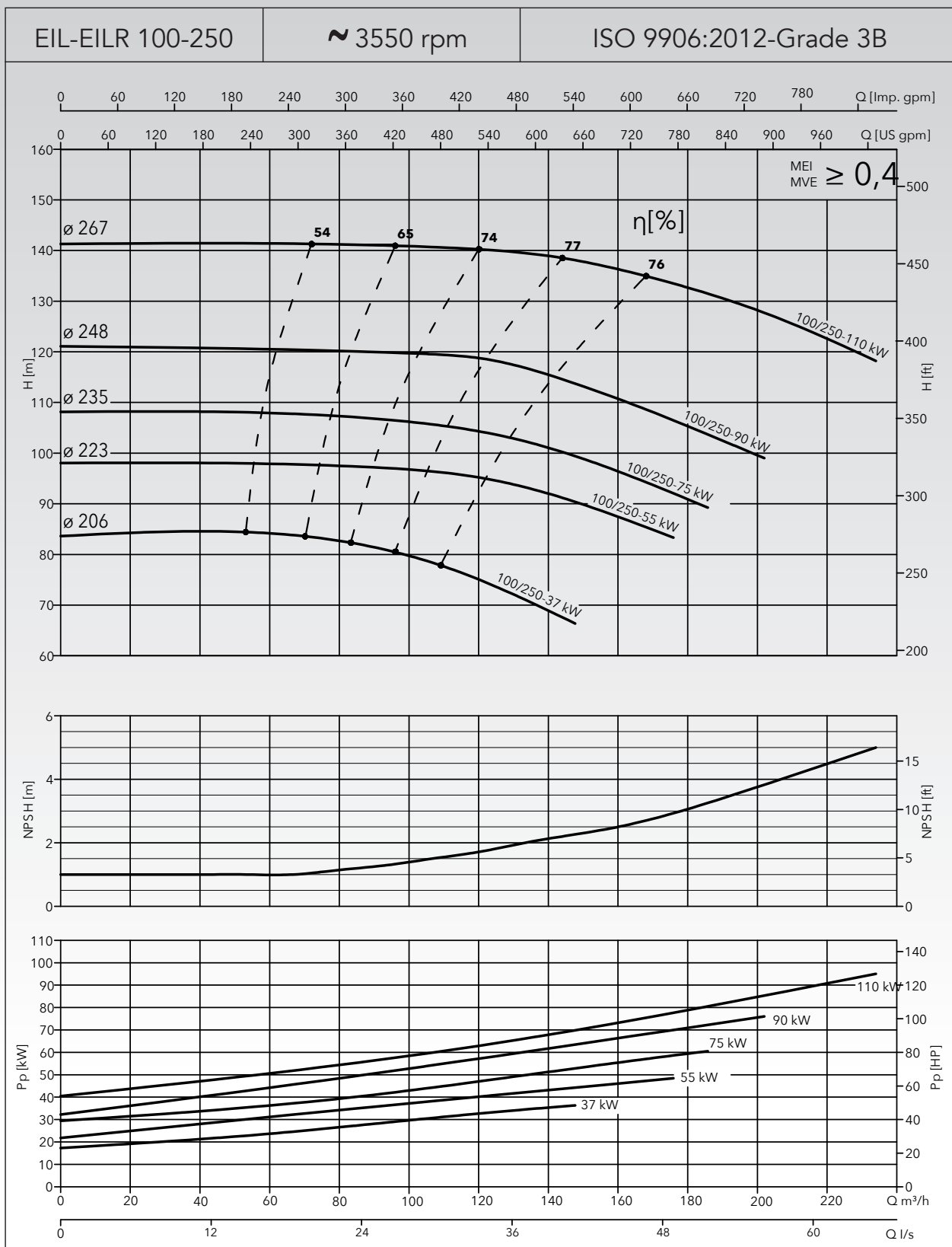


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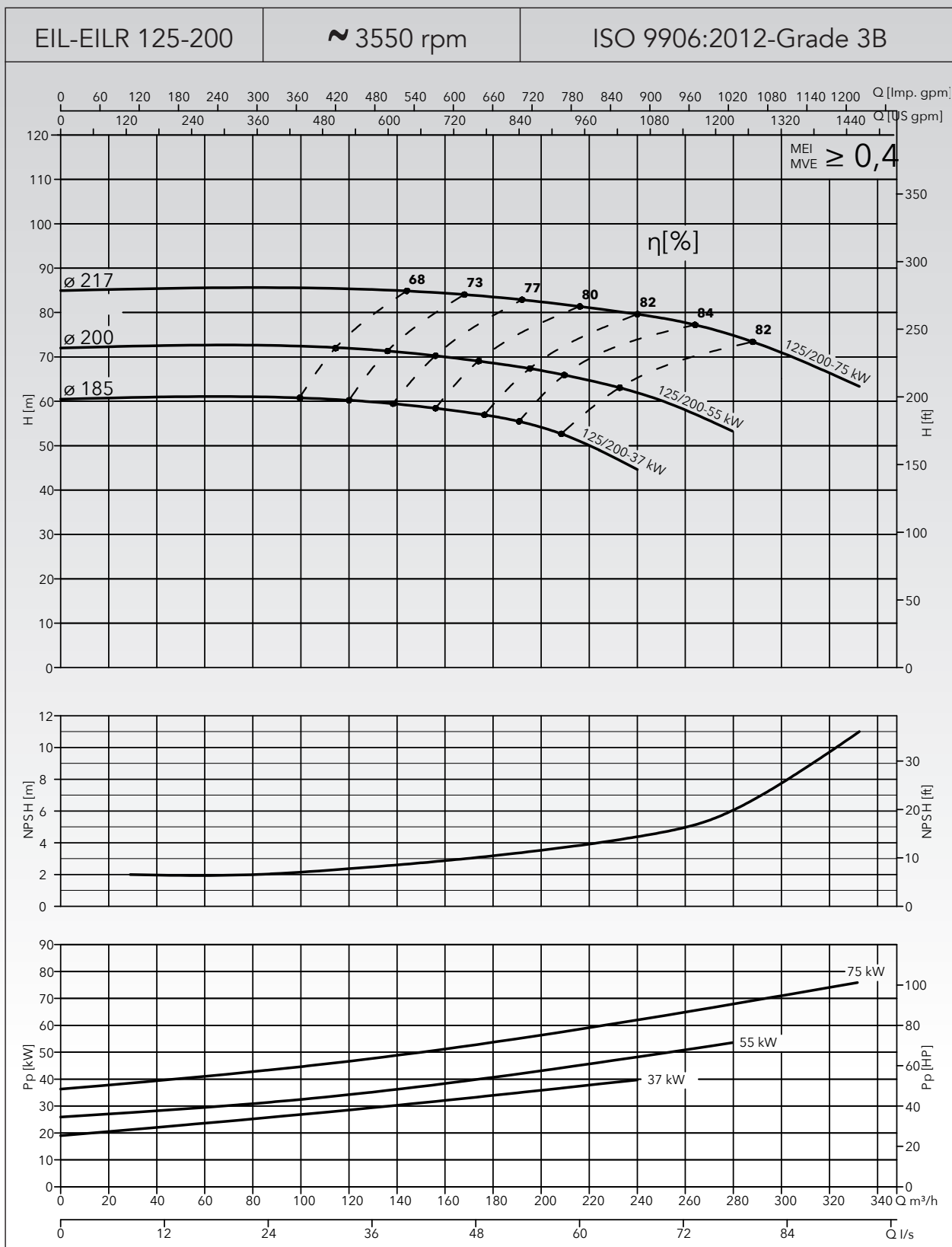


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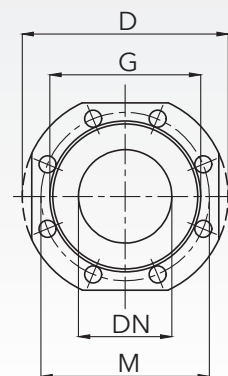
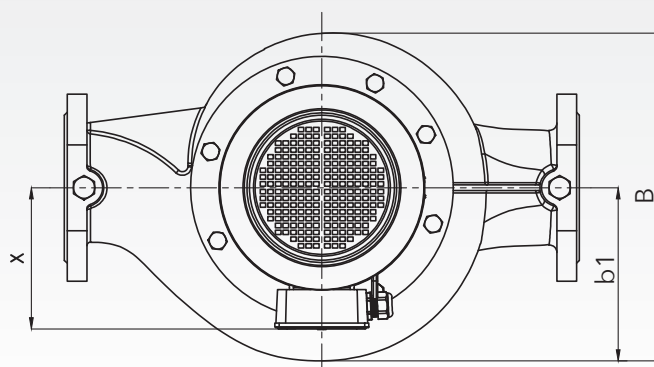
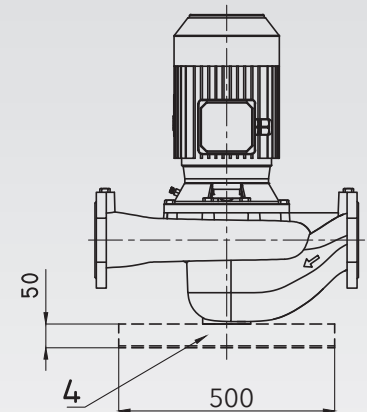
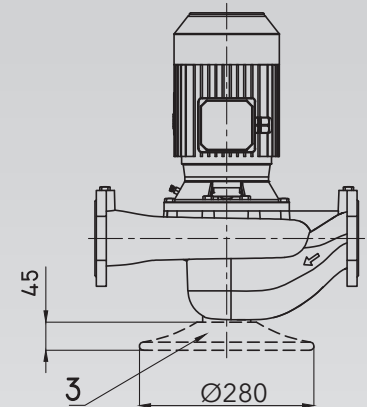
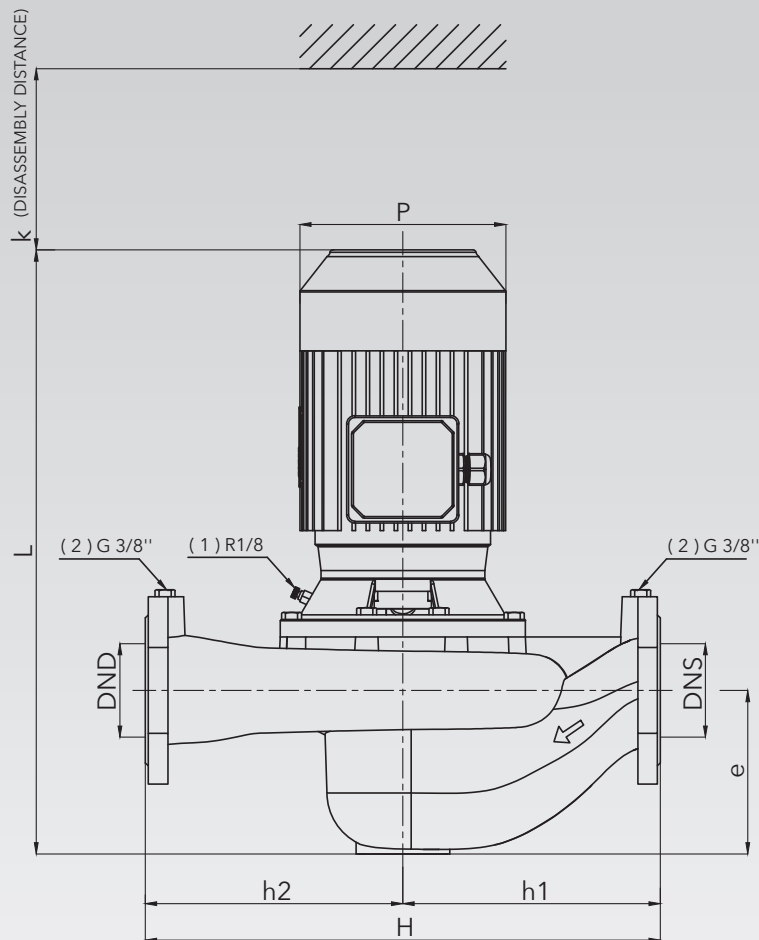


EILR SERIES HYDRAULIC PERFORMANCE CURVES



EILR -EILR4-EILR6 SERIES DIMENSIONS AND WEIGHTS

ETNA®



- (1) R1/8 AIR DISCHARGE VALVE
- (2) G 3/8" PRESSURE GAUGE CONNECTION
- (3) 0.2kW....11kW PUMP LOWER FOOT OPTION
- (4) 15kW...110kW PUMP LOWER BASE IS OPTION

DN	D	M	G	HOLE		MAX. Thickness
				N°	Ø	
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22
125	250	210	188	8	18	22

EILR 4 40, 50, 65, 80, 100, 125 SERIES DIMENSIONS AND WEIGHTS 4 POLES MOTOR 60 Hz (1750 rpm)

PUMP MODEL EILR 4	DIMENSIONS (mm)												WEIGHT kg										
	DND	DNS	e	h1	h2	Hmax	B	b1	L	P	k	x											
40-125/05	40	40	105	160	140	300	235	120	485	155	100	120	32										
40-125/07							240	125	505	175		125	34										
40-125/11												125	36										
40-160/07			85	160	160	320	245	120	470	155		120	34										
40-160/11							255	125	490	175		125	38										
40-160/15												38											
40-200/15			100	190	190	380	270	135	510	175		125	47										
40-200/22									575	195		135	63										
40-200/30							105	215	225	440		325	155	580	195	135	68						
40-250/22			68																				
40-250/30			335	170	700	255						170	73										
40-250/40*																							
40-250/55																							
50-125/05			50	50	110	170	150	320	230	125		500	155	120	120	33							
50-125/07	520	175									125	33											
50-125/11									100	180	180	360	260		135	480	155	120	41				
50-160/07	500	175			125	44																	
50-160/11						48																	
50-160/15	585	195			135	48																	
50-160/22						125	50																
50-200/15	110	200			200	400	280	145	515	175	135	54											
50-200/22									580	195		65											
50-200/30							325	165				705	255		170	73							
50-200/40	125	215			225	440			330	170	705					255	170	73					
50-250/22																		325	165	580	195	135	80
50-250/30																							80
50-250/40	330	170			705	255	170	73															
50-250/55																							
65-125/07	65	65	135	180	160	340	230	130	520	155	130	120	40										
65-125/11									540	175		125	44										
65-125/15							115	200					200	400	275	145	520	50					
65-160/11			590	195	135	53																	
65-160/15						53																	
65-160/22			520	175	125	55																	
65-160/30						110	230	230	460	315		165	590	195	135	59							
65-200/15			600	720	255											170	88						
65-200/22																	88						
65-200/30																							
65-200/40			140	245	235	480	345	180	720	255		170	88										
65-250/30																							
65-250/40																							
65-250/55																							
65-250/75																							

PUMP MODEL EILR 4	DIMENSIONS (mm)												WEIGHT kg					
	DND	DNS	e	h1	h2	Hmax	B	b1	L	P	k	x						
80-160/11	80	80	150	220	220	440	285	150	575	175	140	125	54					
80-160/22									640	195		135	61					
80-160/30													63					
80-160/40													68					
80-200/30			140	250	250	500	320	170	615	255		170	68					
80-200/40									68									
80-200/55									740				82					
80-200/75									150	270		280	550	370	195	745	86	
80-250/55			109															
80-250/75			109															
80-250/110*			109															
80-250/150									400	225		665	310		225	120		
100-160/15	100	100	155	250	250	500	315	170	580	175	150	125	66					
100-160/22									650	195		135	75					
100-160/30													75					
100-160/40													75					
100-200/55			185	275	275	550	350	185	790	255		170	113					
100-200/75													115					
100-200/110*													115					
100-200/150													400	225	910	310	225	127
100-250/75			200	320	280	600	390	210	800	255		170	121					
100-250/110*													121					
100-250/150													405	225	915	310	225	130
100-250/185																		130
125-200/55	125	125	210	300	300	600	380	205	820	255	180	170	127					
125-200/75												400	225	940	310	225	127	
125-200/110*							210	350	300	650							440	235
125-200/150												138						
125-250/110*			210	350	300	650	440	235	930	310		225	170	171				
125-250/150													222					
125-250/185													222					
125-250/300*													245	241				

*Marked pumps will be equipped with compact body motors.

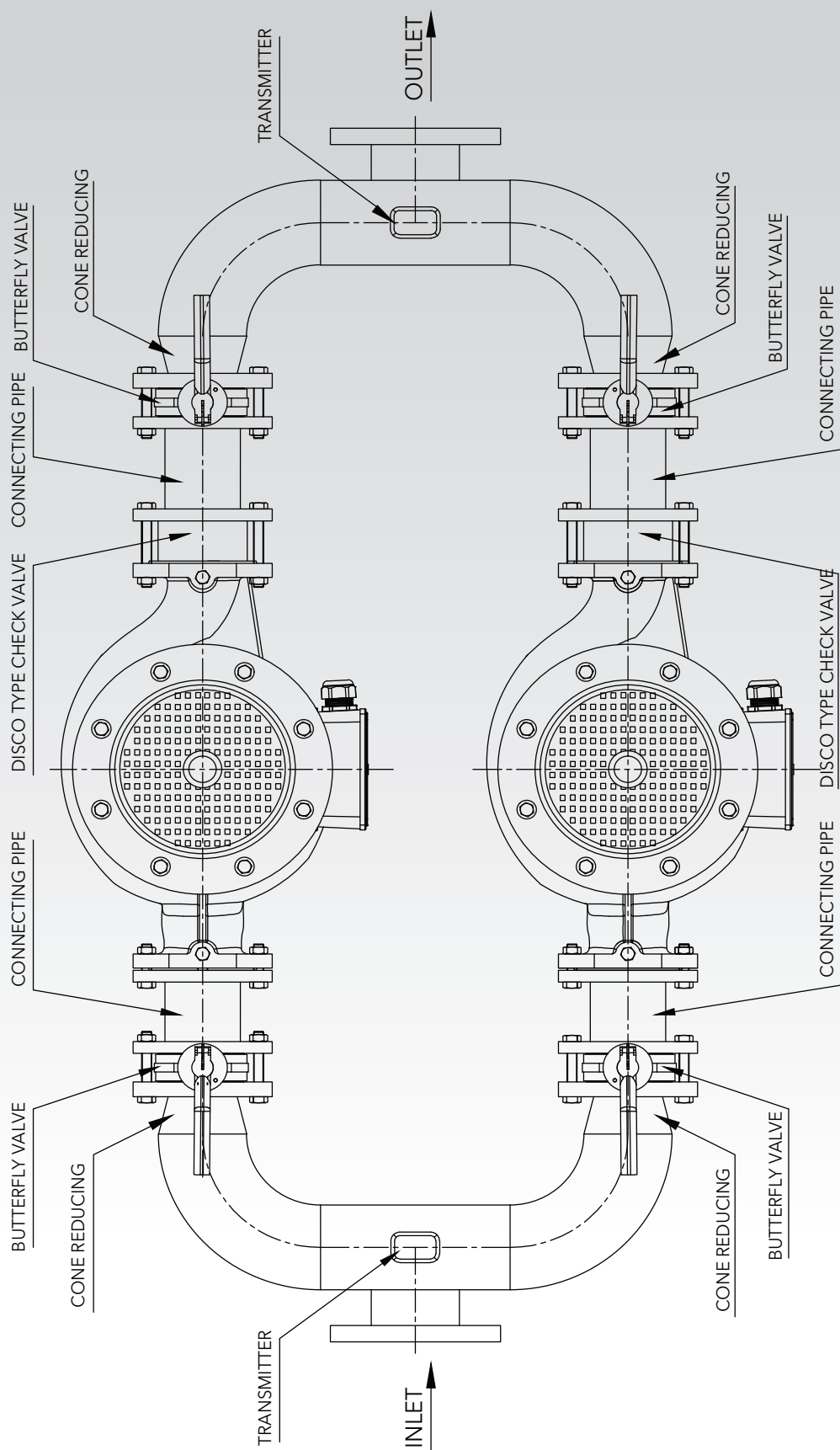
EILR 2 40, 50, 65, 80, 100, 125 SERIES DIMENSIONS AND WEIGHTS 2 POLES MOTOR 60 Hz (3550 rpm)

PUMP MODEL EILR 2	DIMENSIONS (mm)												WEIGHT kg			
	DND	DNS	e	h1	h2	Hmax	B	b1	L	P	k	x				
40-125/30*	40	40	105	160	140	300	240	125	505	175	100	125	32			
40-125/40*							265	135	575	195		135	38			
40-125/55*													555	43		
40-160/40*			85	160	160	320			320					170	615	255
40-160/55*													59			
40-160/110*							62									
40-200/55*			100	190	190	380	270	135	575	195		135	64			
40-200/75*							320	170	700	255			65			
40-200/110*												78				
40-200/150			105	215	225	440	400	225	820	310		225	93			
40-250/110*							335	170	700	255		170	106			
40-250/185							400	225	820	310		225	153			
40-250/300*							420	245	880	350		245	187			
40-250/370							480	280	970	390		280	205			
50-125/30*	50	50	110	170	150	320	230	125	520	175	120	125	51			
50-125/40*							260	135	585	195		135	56			
50-125/55*													56			
50-125/75							320	170	645	255		170	78			
50-160/40*			100	180	180	360	260	135	570	195		135	60			
50-160/55*							320	170	630	255			60			
50-160/75*												110	200	200	400	370
50-160/110*			400	225	825	310	89									
50-200/75							420	245	880	350						225
50-200/110*			125	215	225	440										
50-200/150							121									
50-200/185							143									
50-250/220*							171									
50-250/300*							226									
50-250/370			480	280	880	350	280	240								
50-250/450*								275								
65-125/40*	65	65	135	180	160	340	260	135	605	195	130	135	58			
65-125/55*							320	170	665	255		170	58			
65-125/75													63			
65-125/110*			115	200	200	400	275	145	590	195		135	63			
65-160/55*													320	170	645	255
65-160/75							400	225	830	310		225				
65-160/110*													320	170	710	255
65-160/150			119													
65-160/185			110	230	230	460	400	225	830	310		225	233			
65-200/110*													104			
65-200/150													225	124		
65-200/185														157		
65-200/220*														178		

PUMP MODEL EILR 2	DIMENSIONS (mm)												WEIGHT kg
	DND	DNS	e	h1	h2	Hmax	B	b1	L	P	k	x	
65-250/300*	65	65	140	245	235	480	420	245	900	350	130	245	235
65-250/370							480	280	990	390		280	248
65-250/550*							510	285	1055	435		285	290
80-160/75*	80	80	150	220	220	440	285	150	640	195	140	135	75
80-160/110*							320	170	700	255		170	101
80-160/185							400	225	880	310		225	124
80-160/220*													124
80-200/300*			140	250	250	500	420	245	920	350		245	229
80-200/370							480	280	1005	390		280	257
80-200/450*							510	285	1075	435		285	311
80-200/550*			150	270	280	550	420	245	925	345		245	221
80-250/300*							480	280	1010	390		280	279
80-250/370*							600	325	1155	480		325	387
80-250/750*							625	350	1215	545		350	430
80-250/900*													
100-160/185	100	100	155	250	250	500	400	225	890	310	150	225	159
100-160/220*							420	245	950	345		245	185
100-160/300*													231
100-200/220*			185	275	275	550	400	225	910	310		225	190
100-200/300*							420	245	970	345		245	245
100-200/370							480	280	1055	390		280	282
100-200/550*							510	285	1125	435		285	353
100-200/750*							600	325	1200	480		325	428
100-250/370			200	320	280	600	480	280	1065	390		280	291
100-250/550*							515	285	1130	435		285	364
100-250/750*							600	325	1205	480		325	429
100-250/900*							625	350	1270	545		350	508
100-250/1100*													611
125-200/370	125	125	210	300	300	600	480	280	1040	390	180	280	295
125-200/550*							510	285	1155	435		285	397
125-200/750*							600	325	1230	480		325	451

*Marked pumps will be equipped with compact body motors.

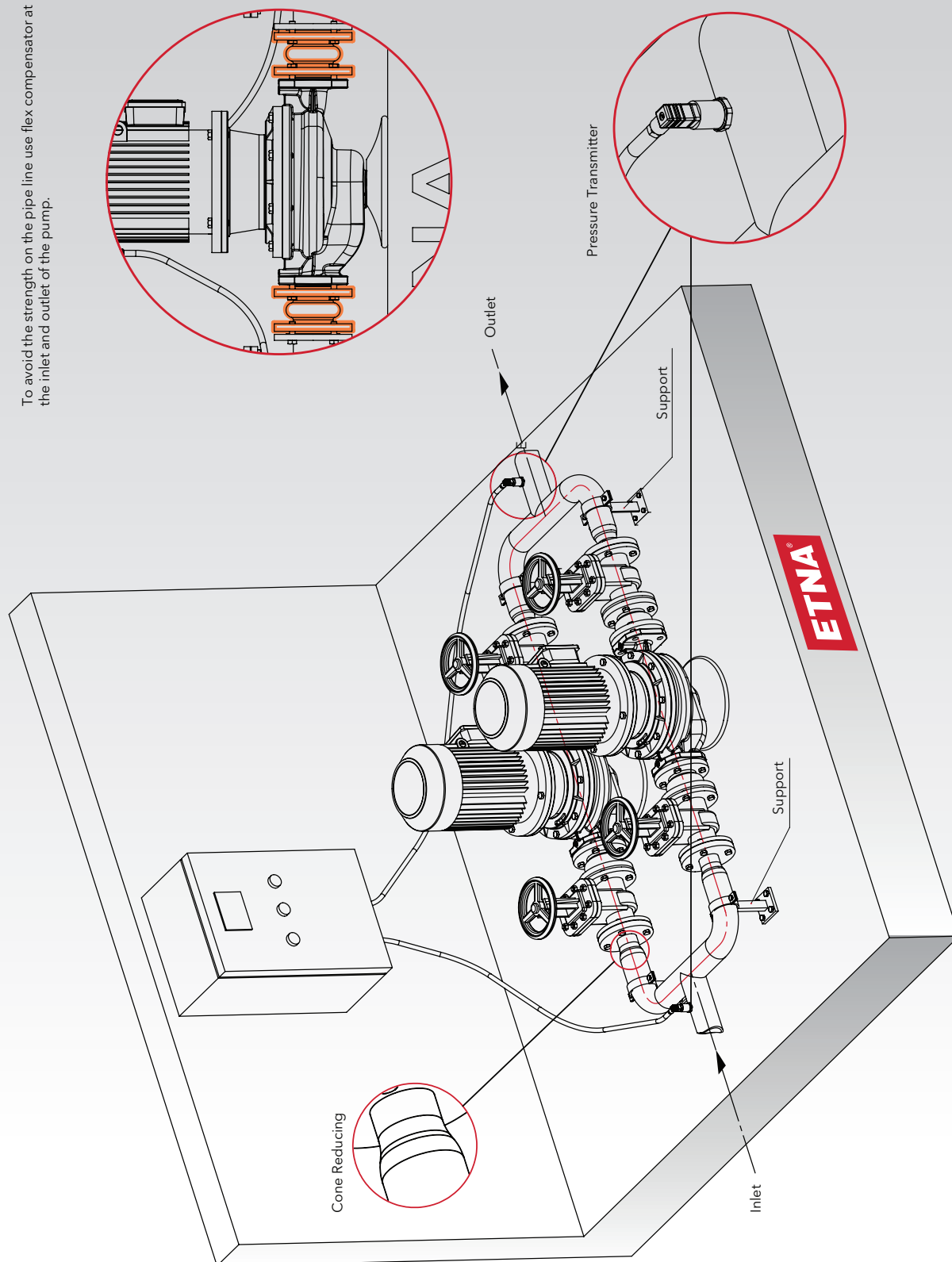
EILR SERIES DOUBLE PUMPS
CONNECTION DETAIL



DOUBLE CIRCULATION PUMPS AND TRANSMITTER CONNECTION DETAIL

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To avoid the strength on the pipe line use flex compensator at the inlet and outlet of the pump.





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